WM-F701C

SERVICE MANUAL

US Model
AEP Model
UK Model

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

SPECIFICATIONS

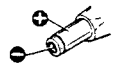
Radio section
Frequency range
US model:
FM: 87.9—107.9 MHz
AM: 530—1,670 kHz
AEP, UK model:
FM: 87.5—108 MHz
AM: 531—1,602 kHz
Antenna
FM: Headphones cord antenna
AM: Built-in ferrite bar antenna

Tape player section and general
Frequency response (DOLBY NR off)
20—18,000 Hz
Output
Headphones (PHONES/REMOTE jack) load impedance 8—300Ω
Power output
5 mW+5 mW at DC operation, 16Ω
Power requirements
1.5 V DC
Rechargeable battery
One R6 (size AA) battery
DC IN 1.5 V jack accepts:
Sony AC-D1M power adaptor (optional)
Sony EBP-7 battery case (optional) for use with two R6 (size AA) batteries
Sony DCC-70 (optional) for use with 12 V car battery
Battery life

Battery	Playback	Radio Reception
Rechargeable NC-6WM fully charged	Approx. 2.5 hours	Approx. 5 hours
Sony SUM-3 (NS)	Approx. 1.5 hours	Approx. 3 hours
Sony AM3 (N)	Approx. 4.5 hours	Approx. 8.5 hours
Rechargeable NC-6WM with Sony AM3 (N)	Approx. 6.5 hours	Approx. 12 hours

For maximum performance we recommend the use of alkaline batteries.
Dimensions
Approx. 104.6 × 71.8 × 22.4 mm (w/h/d) not incl. projecting parts and controls
Approx. 105.6 × 74.2 × 24.5 mm (w/h/d) incl. projecting parts and controls
Weight
Approx. 190 g incl. rechargeable battery, not incl. other accessories
Accessories supplied
Battery case (1) Carrying pouch (1) Battery charger (1)
Rechargeable battery (1) Lithium battery (1)
Stereo headphones with remote the controlled device (open-air type, 1)
Plug adaptor (1) Clip (1)
Design and specifications subject to change without notice.

Note: Use only the recommended an AC power adaptor or a car battery cord manufactured by Sony. Polarity of the plug of other manufacturers may be different.



Polarity of the Sony Plug

Model Name Using Similar Mechanism	New Mechanism
Tape Transport Mechanism Type	MT-WM701C-17

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MICROFILM

RADIO CASSETTE PLAYER

SONY®

SECTION 1
SERVICING NOTE

This set detects reel rotation by PH701 (photo sensor). Reel rotation cannot be detected when the system control board is removed, because PH701 is mounted on the system control board. As a result, the auto-off circuit and tape end detection will misoperate. And, up and down of head and power supply of playback circuit cannot operate when the system control board is removed, because S702 (play switch) is mounted on the system control board.(S702 is linked to on and off of the plunger solenoid.)
Therefore, operation check of the mechanism deck and voltage check can be performed by the method shown below.

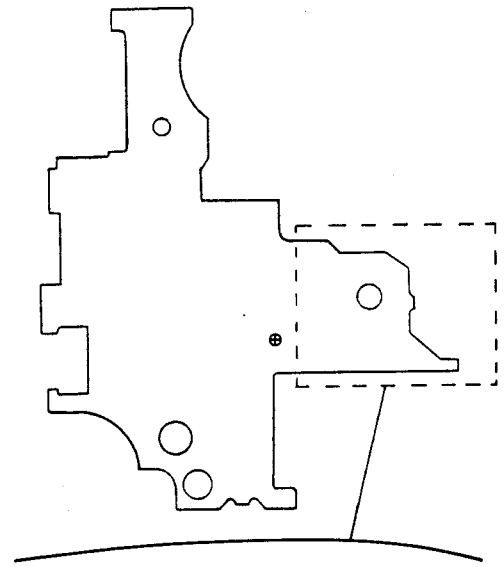
FF/REW mode

1) Apply the square wave signal to the PH701.
2) Press the ▶▶ or ▶▶ key.

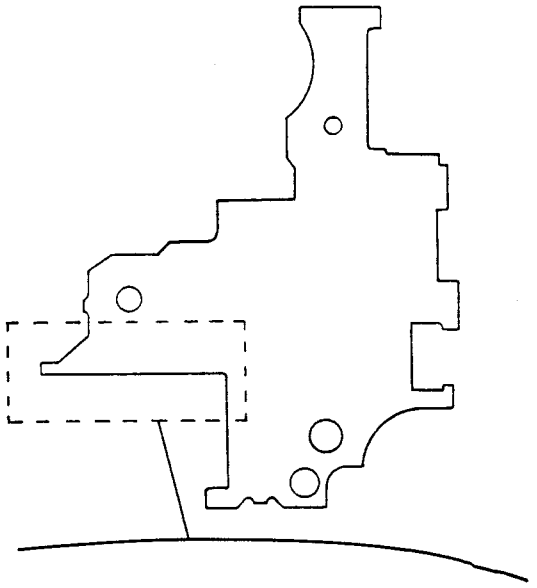
PLAY mode

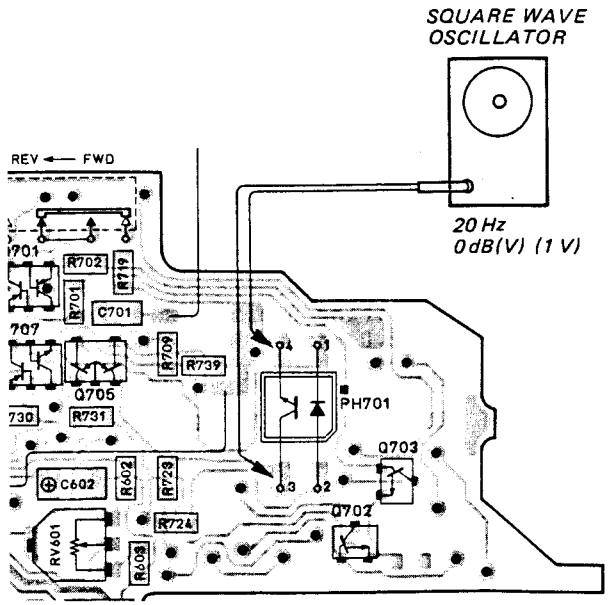
1) Apply the square wave signal to the PH701.
2) Press the ▶ key.
3) Turn on S702 a few seconds later.

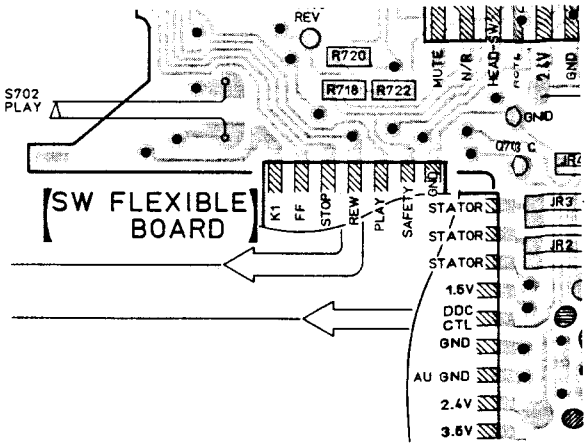
– System Control Board (side A) –



– System Control Board (side B) –







Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

WARNING !!

ADVARSEL!
Lithiumbatteri – Eksplosionsfare
Udskiftning må kun foretages af en sagkyndig, og som beskrevet i servicemanualen.

LITHIUM BATTERY

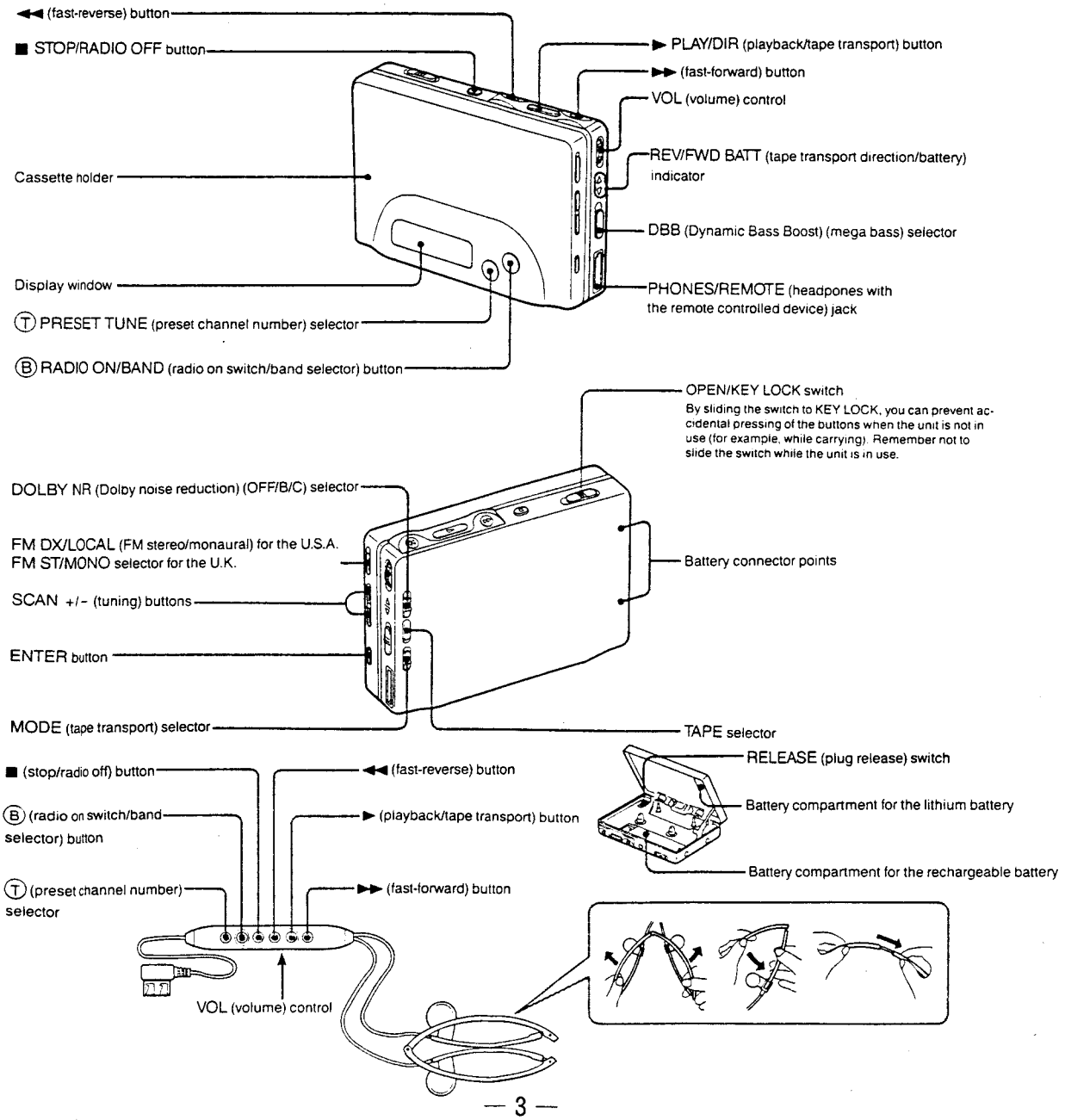
SHOULD ONLY BE CHANGED BY TECHNICAL PERSONNEL. THERE IS A RISK FOR EXPLOSION AT A WRONG HANDLING.

"Batteriet må kun udskiftes med et batteri af samme fabrikat og type".

Because of the risk for explosion the battery must be replaced with the same type and manufacture.

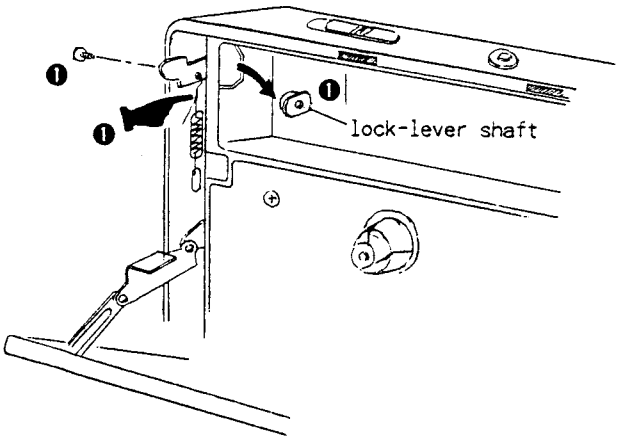
SECTION 2 GENERAL

2-1. Location and Function of Controls

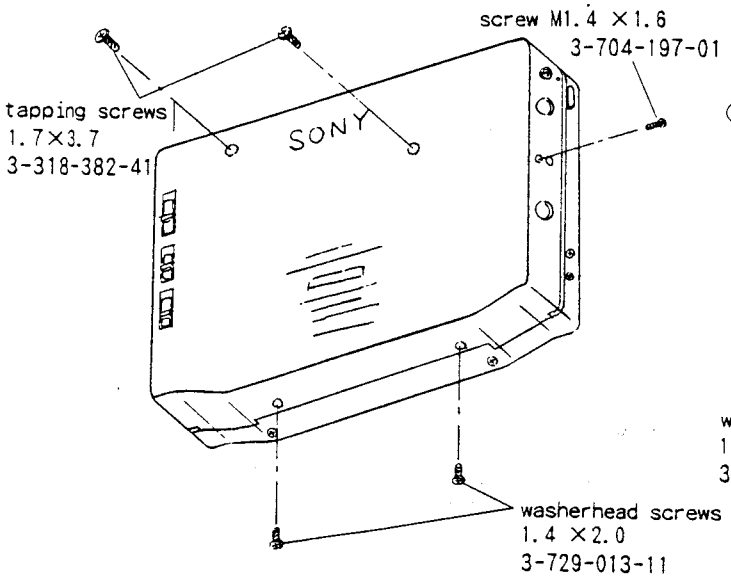

◀◀ (fast-reverse) button
■ STOP/RADIO OFF button
▶ PLAY/DIR (playback/tape transport) button
▶▶ (fast-forward) button
VOL (volume) control
Cassette holder
REV/FWD BATT (tape transport direction/battery) indicator
DBB (Dynamic Bass Boost) (mega bass) selector
Display window
PHONES/REMOTE (headpones with the remote controlled device) jack
Ⓣ PRESET TUNE (preset channel number) selector
Ⓑ RADIO ON/BAND (radio on switch/band selector) button
OPEN/KEY LOCK switch
By sliding the switch to KEY LOCK, you can prevent accidental pressing of the buttons when the unit is not in use (for example, while carrying). Remember not to slide the switch while the unit is in use.
DOLBY NR (Dolby noise reduction) (OFF/B/C) selector
FM DX/LOCAL (FM stereo/monaural) for the U.S.A.
FM ST/MONO selector for the U.K.
Battery connector points
SCAN +/- (tuning) buttons
ENTER button
MODE (tape transport) selector
TAPE selector
■ (stop/radio off) button
◀◀ (fast-reverse) button
Ⓑ (radio on switch/band selector) button
▶ (playback/tape transport) button
Ⓣ (preset channel number) selector
▶▶ (fast-forward) button
VOL (volume) control
RELEASE (plug release) switch
Battery compartment for the lithium battery
Battery compartment for the rechargeable battery

2-2. Disassembly

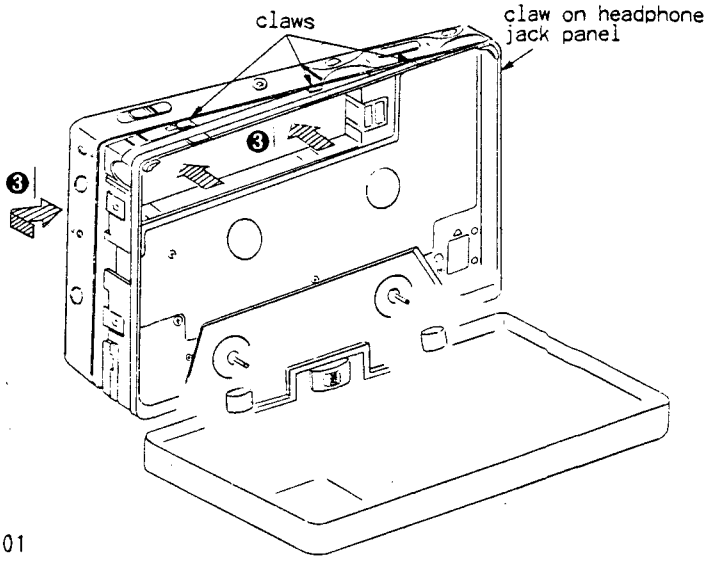
①Open cassette holder and remove tension spring from lock lever with a pair of tweezers. Then remove screw which fastens lock-lever shaft. and push the shaft off into battery chamber with a precision screwdriver.



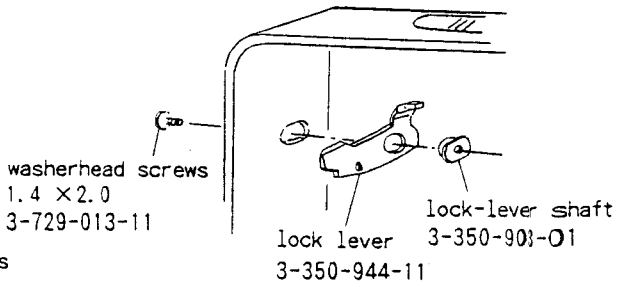
②Remove 5 screws fixing case.



③Push the bottom of battery chamber(case assy) as shown in the figure so that case comes off from main unit gradually pivoting at headphone jack side. After the three claws on the key switch side of case are released. slide and remove case in the direction of headphone jack (not to break the other claw on headphone-jack panel.)



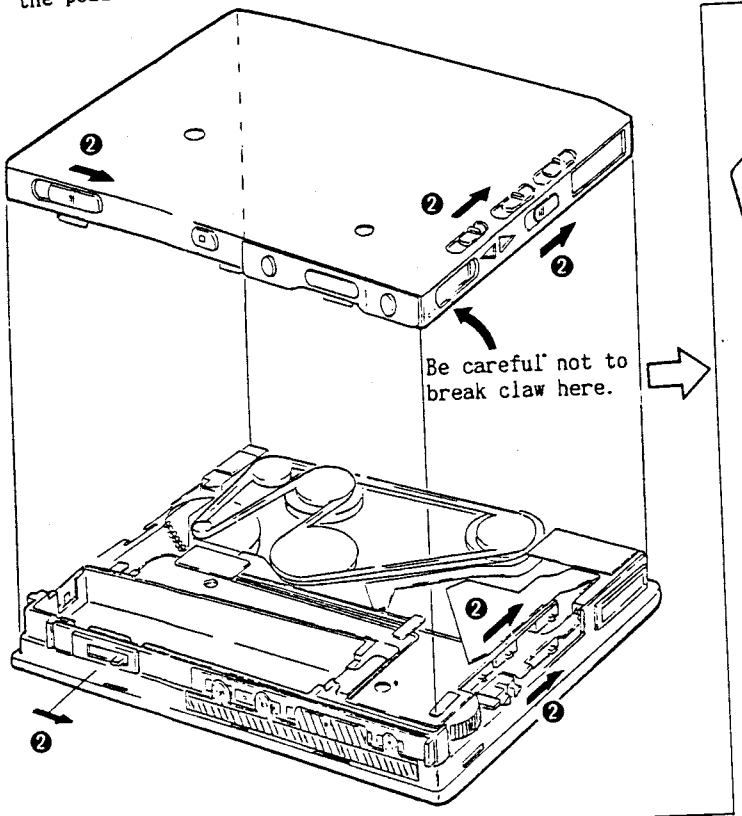
④While disassembling lock lever will come off. so that lock lever and shaft had better be restored just after case is removed. paying attention to the direction of lock-lever shaft.



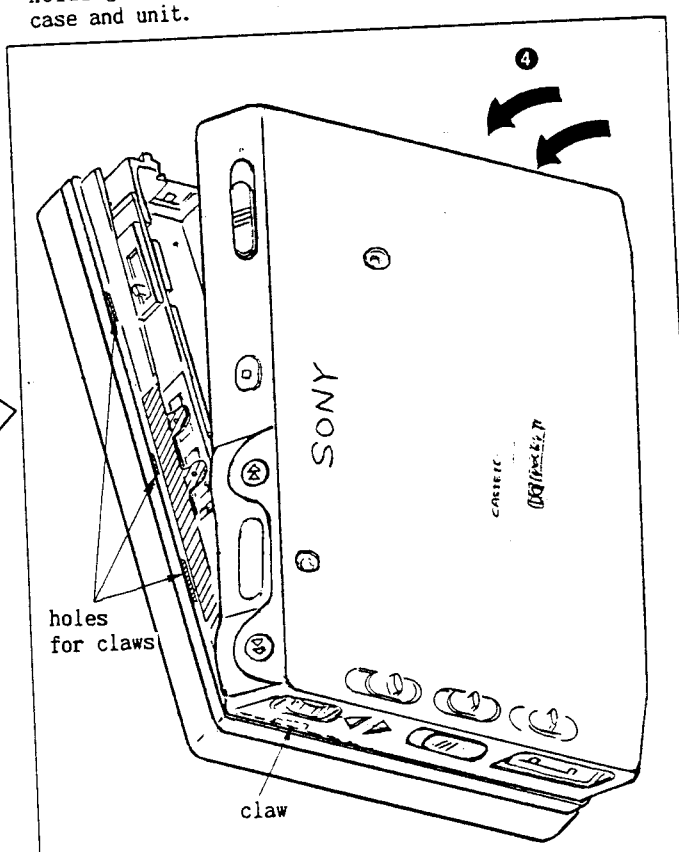
3. Reassembly

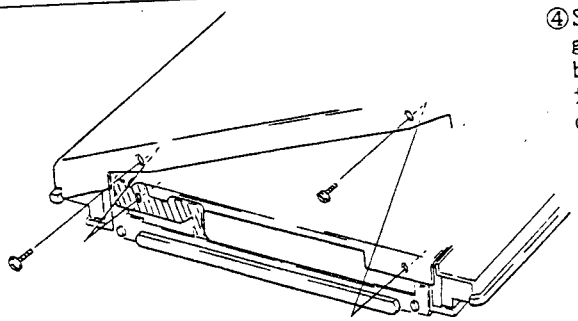
①Assure that lock lever is fitted properly. (Refer to the figure for disassembly.)

②Set all switches on main unit and knobs on case in the positions as shown by arrows ②.



③Put the headphone-jack-side edge of case onto the proper portion of main unit. taking care not to break claw on the edge of headphone jack panel and holding battery sheet not to be caught in between case and unit.



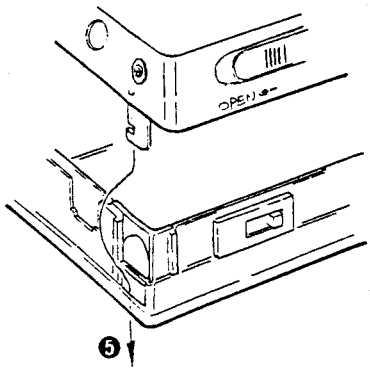


④Shut case in the direction of arrows ❹ with the greatest care at both sides (hatched portion) not to bend the transparent sheet of key switches and head flexible board on the opposite side. inserting three claws into holes.

⑤Inserting lock lever into hole as shown by ❺ close case exactly.

⑥Check that every slide switch can move smoothly.

⑦Finally restore tension spring. If battery sheet is caught in behind unit. release it before fastening screws.



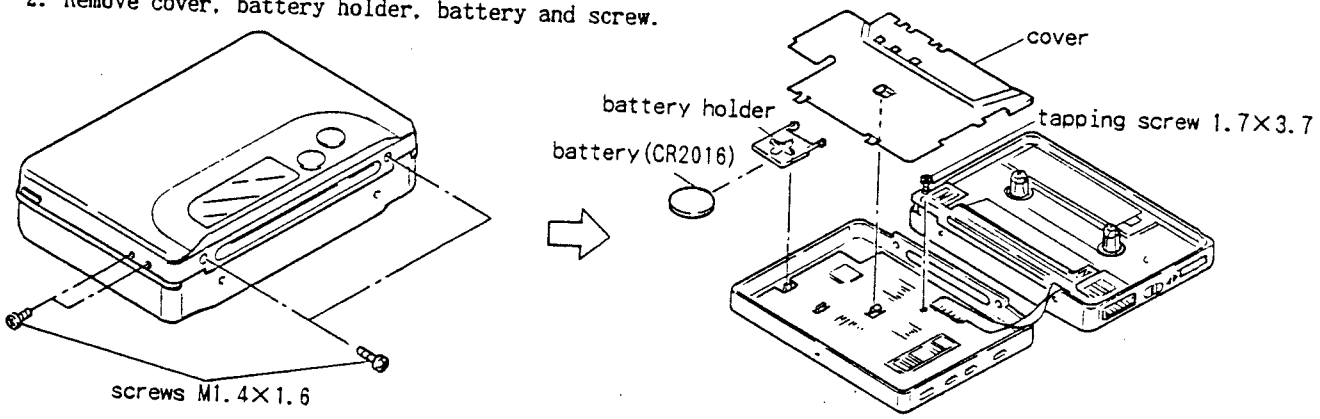
2-4. Removal of Radio Board

- Disassembly of case is the same as that of WM-701C. Refer to the WM-701C SERVICE MANULAL Supplement-1.
- Before repairing, channel numbers of tuner pressent memory and stored frequencies should be jotted down.

1. Remove screws fastening cassette holder and click arm, and remove cassette holder.

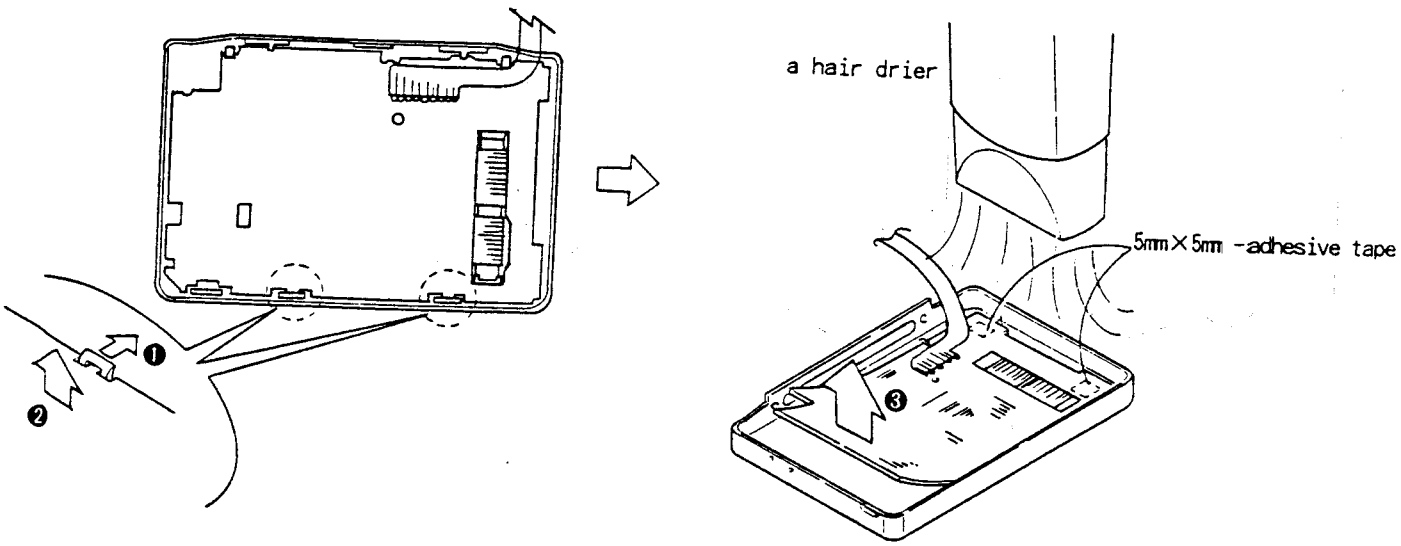
   Note: Cassette holder is connected to main unit only with a flexible board. Be careful not to hurt the flexible board.

2. Remove cover, battery holder, battery and screw.



3. Release two claws as shown by arrow ❶ and pull radio board up.(❷)
4. Warm radio board with a hair drier at two portions attached to cassette holder with adhesivetape and peel radio board as shown by arrow ❸.

- After the repair the jotted data should be restored into preset-memories as they were.



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denaturedalcohol-moistened swab:
   playback head rubber belts
   capstan idlers
   pinch roller
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage (1.3 V) unless otherwise noted.

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	22 – 38 g·cm 0.31 – 0.52 oz·inch
FWD Back Tension		1.0 – 3.0 g·cm 0.02 – 0.04 oz·inch
REV	CQ-102RB	22 – 38 g·inch 0.31 – 0.52 oz·inch
REV Back Tension		1.0 – 3.0 g·cm 0.02 – 0.04 oz·inch
FF	CQ-201B	more than 50 g·cm more than 0.7 oz·inch
REW		more than 50 g·cm more than 0.7 oz·inch

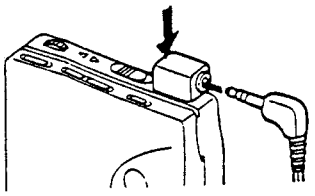
Tape Pulling Force Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 50 g more than 1.77 oz
REV	CQ-403R	more than 50 g more than 1.77 oz

3-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

1. Power supply voltage: 1.3 V
2. Switch position
   FM MODE switch: ST
   DOLBY switch: OFF
   DBB switch: OFF
3. For electrical adjustments, use the supplied plug conversion adaptor (Part No. 1-563-133-11).



Cassette Section

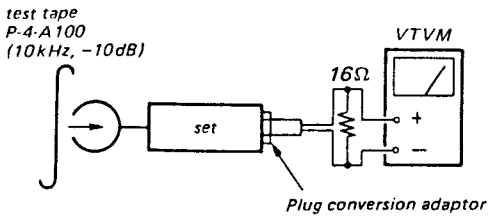
TEST TAPE

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment
P-4-A100	10 kHz, –10 dB	Playback Head Azimuth check
P-4-A063	6.3 kHz, –10 dB	
P-4-L300	315 Hz, 0 dB	Playback Level Adjustment

Playback Head Azimuth Check

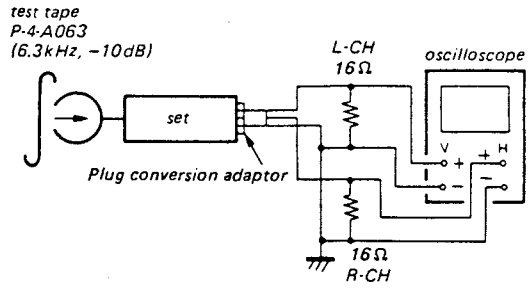
Note: This set is not featured the head azimuth adjustment.
When replacing the head, check the both L-ch and R-ch output levels and also those phases.

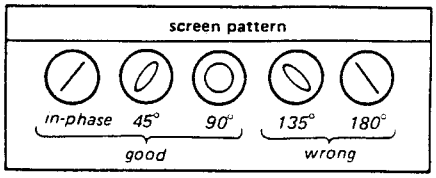
Procedure:
1. Playback mode.



1) Play back the P-4-A100 in FWD mode and read the VTVM (both L-ch and R-ch).
2) Change to REV mode and read the VTVM (both L-ch and R-CH).
3) Confirm that the level difference between step 1 and 2 is within 5 dB (both L-ch and R-ch).

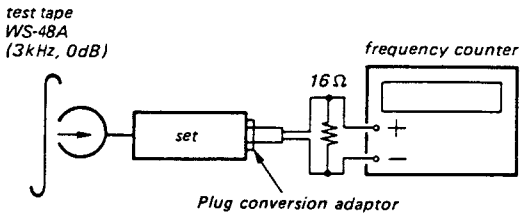
2. Phase Check





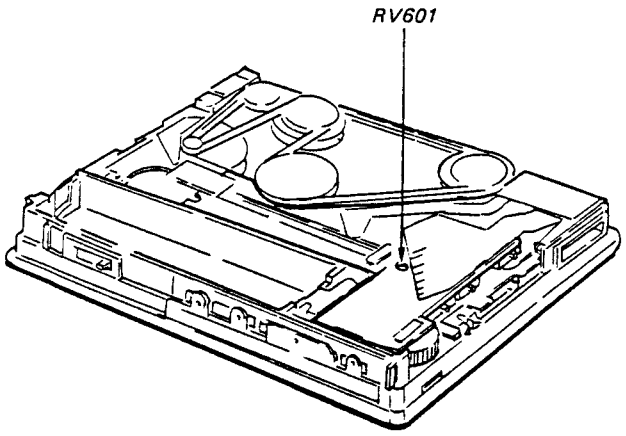
Tape Speed Adjustment

Procedure:



1. Playback WS-48A (tape center portion) in FWD mode. Adjust the RV601 so that the frequency counter reads 3,000 Hz ±15 Hz.
2. Playback WS-48A (tape center portion) in REV mode. Confirm that the reading of frequency counter is within 2.0% from the reading in step 1.

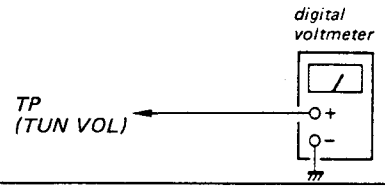
Adjustment Parts Location Diagram



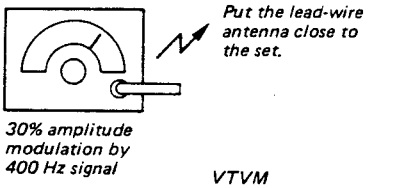
Radio Section

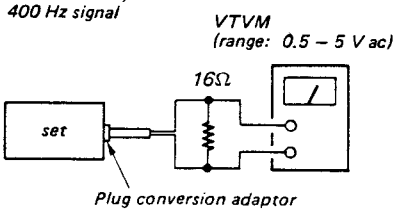
AM SECTION

BAND switch: AM



AM TUNING VOLTAGE ADJUSTMENT		
Adjust for following values on digital voltmeter.		
	US model	AEP, UK model
Display indication	AM 530kHz	AM 531kHz
Digital voltmeter reading	1.1 V	
Adjustment part	T2	





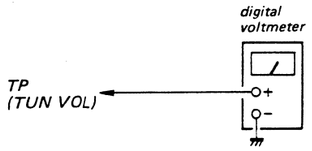
- Repeat the procedures in each adjustment several times, and the tracking adjustment should be finally done by the trimmer capacitors.

AM TRACKING ADJUSTMENT		
Adjust for a maximum reading on VTVM.		
	US model	AEP, UK model
Display indication	AM 630kHz	AM 621kHz
	AM 1,490kHz	AM 1,395kHz
SG frequency	630kHz	621kHz
	1,490kHz	1,395kHz
Adjustment part	L8	
	CT3	

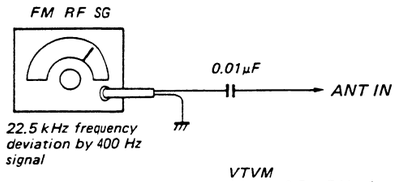
AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
SG frequency	450kHz
Adjustment part	T1

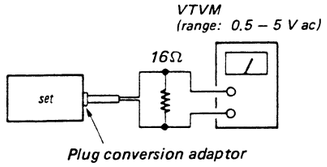
FM SECTION

BAND switch: FM



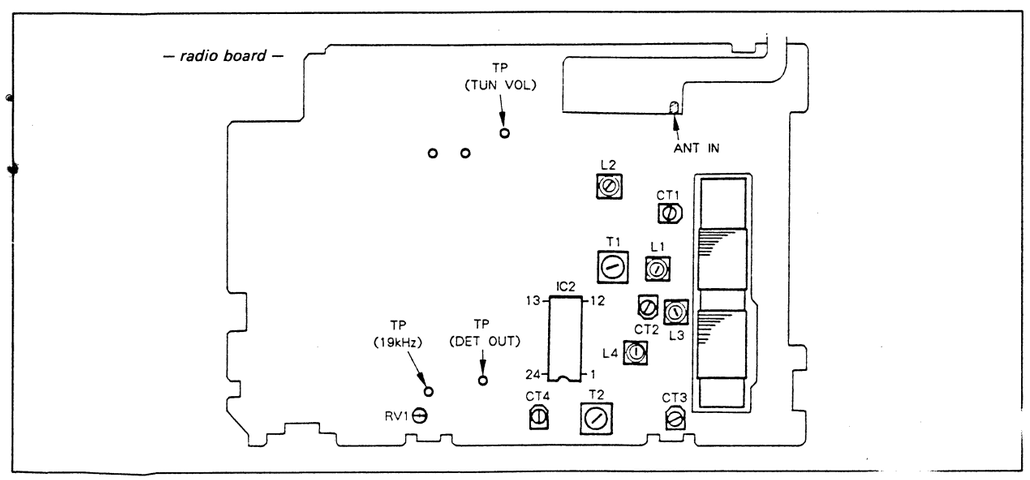
FM TUNING VOLTAGE ADJUSTMENT		
Adjust for following values on digital voltmeter.		
	US model	AEP, UK model
Display indication	FM 87.9MHz	FM 87.5MHz
Digital voltmeter reading	2.6V	3.5V
Adjustment part	L4	





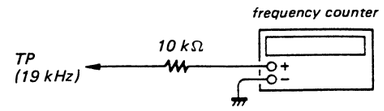
- Repeat the procedures in each adjustment several times, and the tracking adjustment should be finally done by the trimmer capacitors.

FM TRACKING ADJUSTMENT		
Adjust for a maximum reading on VTVM.		
	US model	AEP, UK model
Display indication	FM 87.9MHz	FM 87.5MHz
	FM 107.9MHz	FM 108.0MHz
SG frequency	87.9MHz	87.5MHz
	107.9MHz	108.0MHz
Adjustment part	L3	
	CT2	



VCO Adjustment

BAND switch: FM

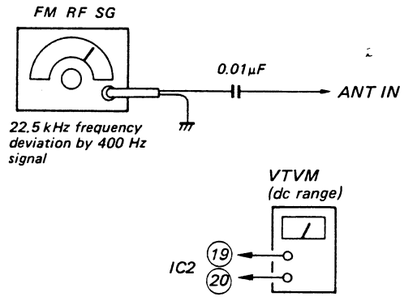


Procedure:

1. Connect an electrolytic capacitor 1 μF between TP (DET OUT) and ground.
2. Adjust RV1 for 19 ±0.02 kHz on the counter.
3. Remove electrolytic capacitor connected in step 1.

NULL Adjustment

BAND switch: FM

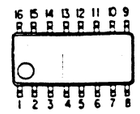


Adjust for 0V reading on VTVM.		
	US model	AEP, UK model
Display indication	FM 97.9MHz	FM 98MHz
SG frequency	97.9MHz	98MHz
Adjustment part	CT4	

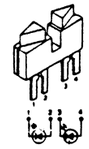
SECTION 4
DIAGRAMS

4-1. SEMICONDUCTOR LEAD LAYOUTS

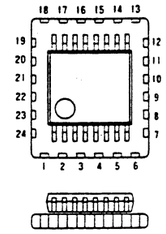
BA1362FS



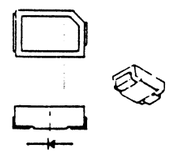
GL102R6



MHC8570EQ1L

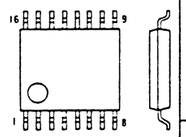


MA110

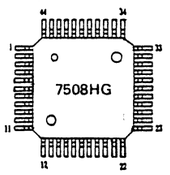


NJL5161K-B

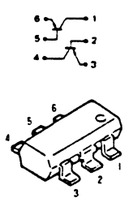
TA8145FN-EL



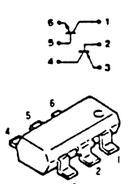
μPD7508HG



XN4401



XN4608

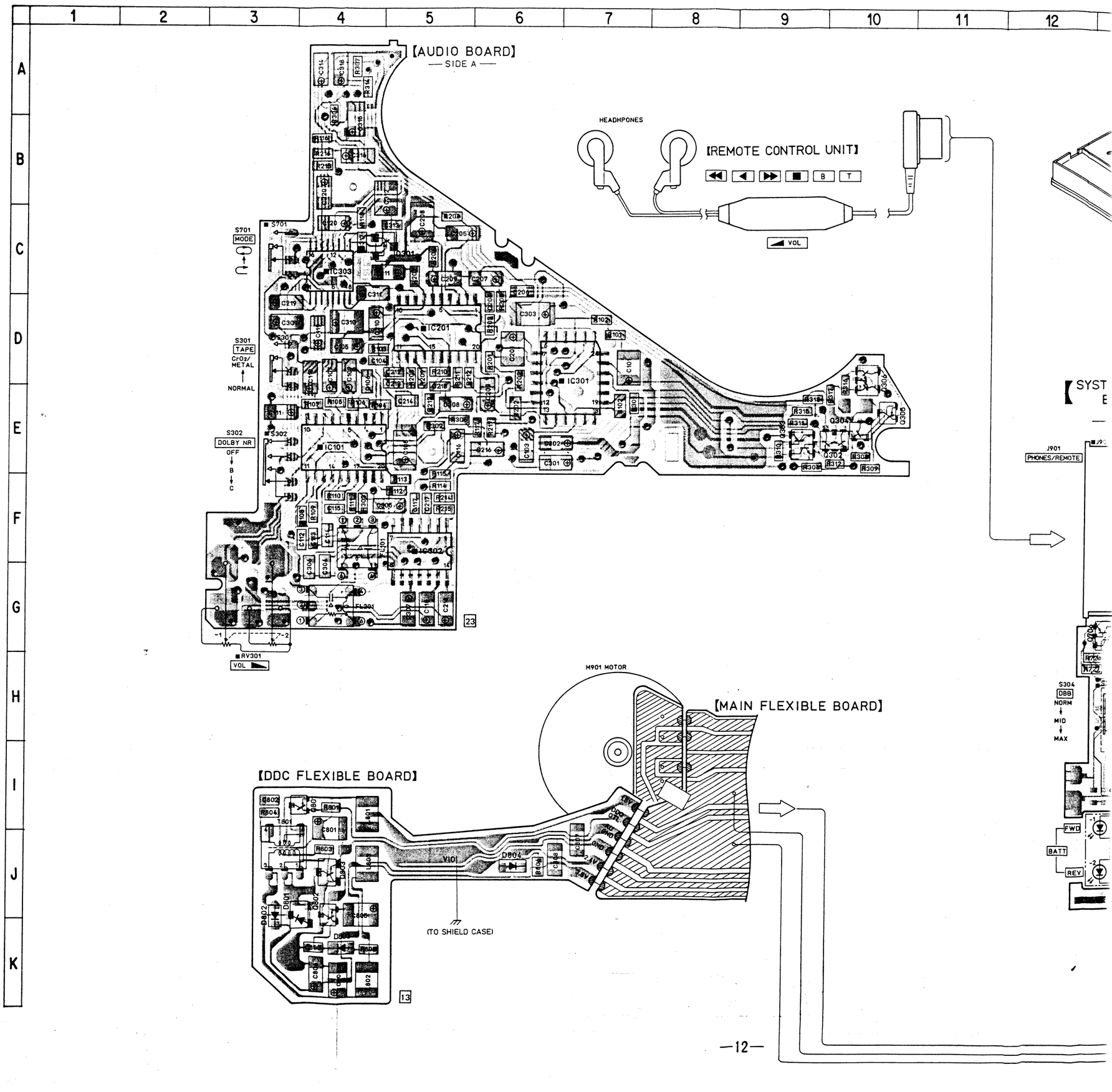


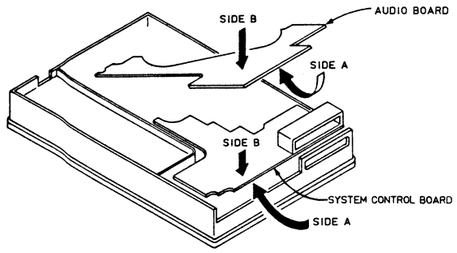
4-2. PRINTED WIRING BOARDS
—Cassette Section—

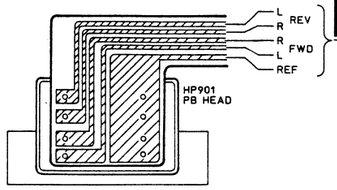
- **Semiconductor Location**

Ref. No.	Location
D701	G-13
D702	J-13
D703	H-16
D801	J-3
D802	J-3
D803	K-4
D804	J-6
IC101	E-4
IC201	D-5
IC301	D-7
IC302	F-5
IC303	C-4
IC601	J-14
IC701	H-14
PH701	I-16
Q301	C-5
Q302	E-10
Q303	E-9
Q304	E-10
Q305	E-10
Q306	D-10
Q601	J-13
Q602	J-14
Q701	H-15
Q702	J-16
Q703	J-16
Q704	G-13
Q705	H-15
Q706	I-15
Q707	G-13
Q708	H-15
Q709	J-26
Q710	I-17
Q711	G-14
Q801	I-4
Q802	J-4
Q803	J-4

- ■ : Parts mounted on the conductor side.
- ● : Through hole.
- ▒ : Pattern on the side which is seen.
- ▒ : Pattern of the rear side.







【HEAD FLEXIBLE BOARD】

【AUDIO BOARD】
— SIDE B —

【RADIO FLEXIBLE BOARD】

Ⓐ RADIO BOARD

PM901

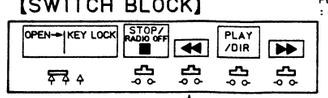
【PLUNGER FLEXIBLE BOARD】

【SYSTEM CONTROL BOARD】
— SIDE B —

【FLEXIBLE BOARD】

【SYSTEM CONTROL BOARD】
— SIDE A —

【SWITCH BLOCK】

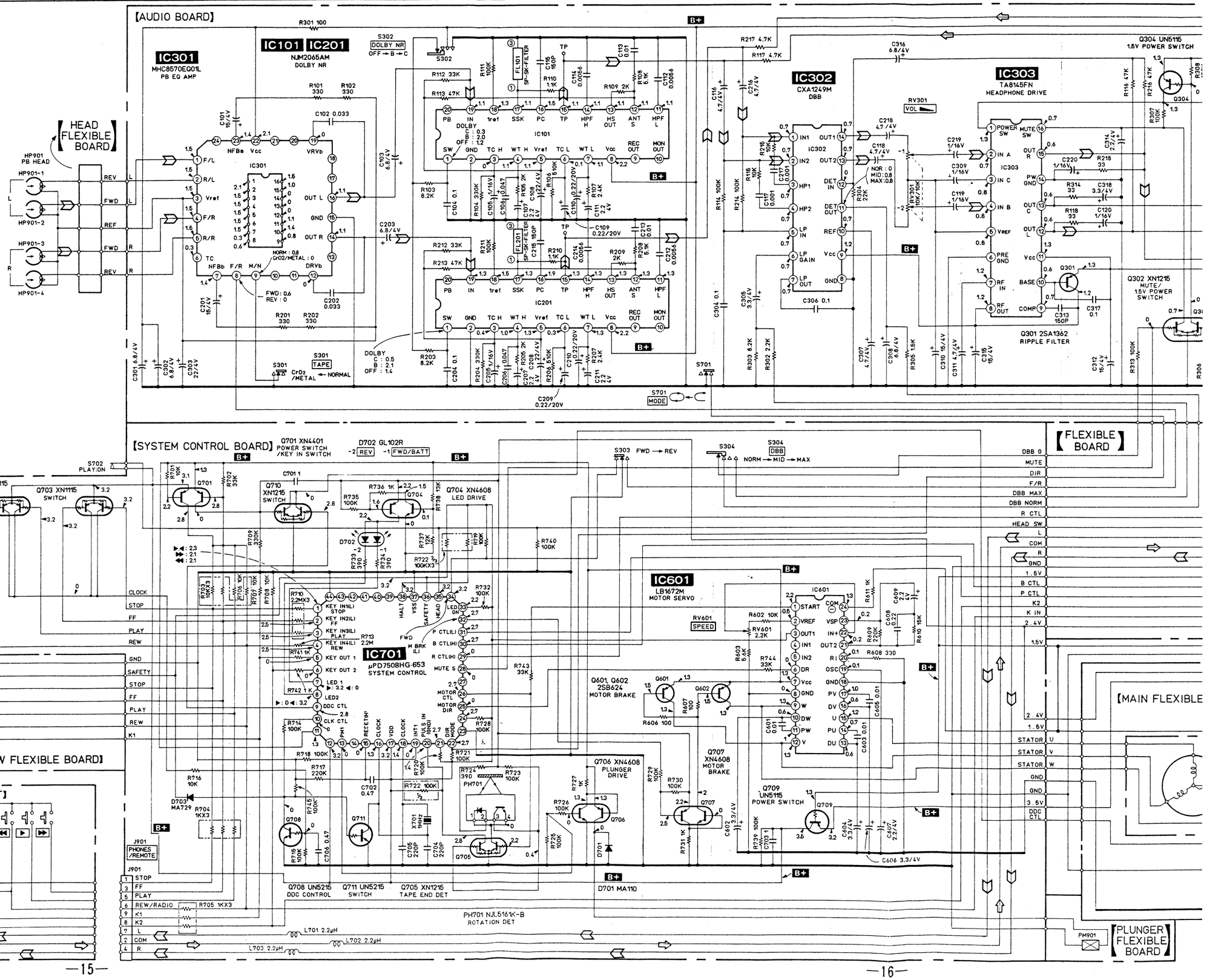


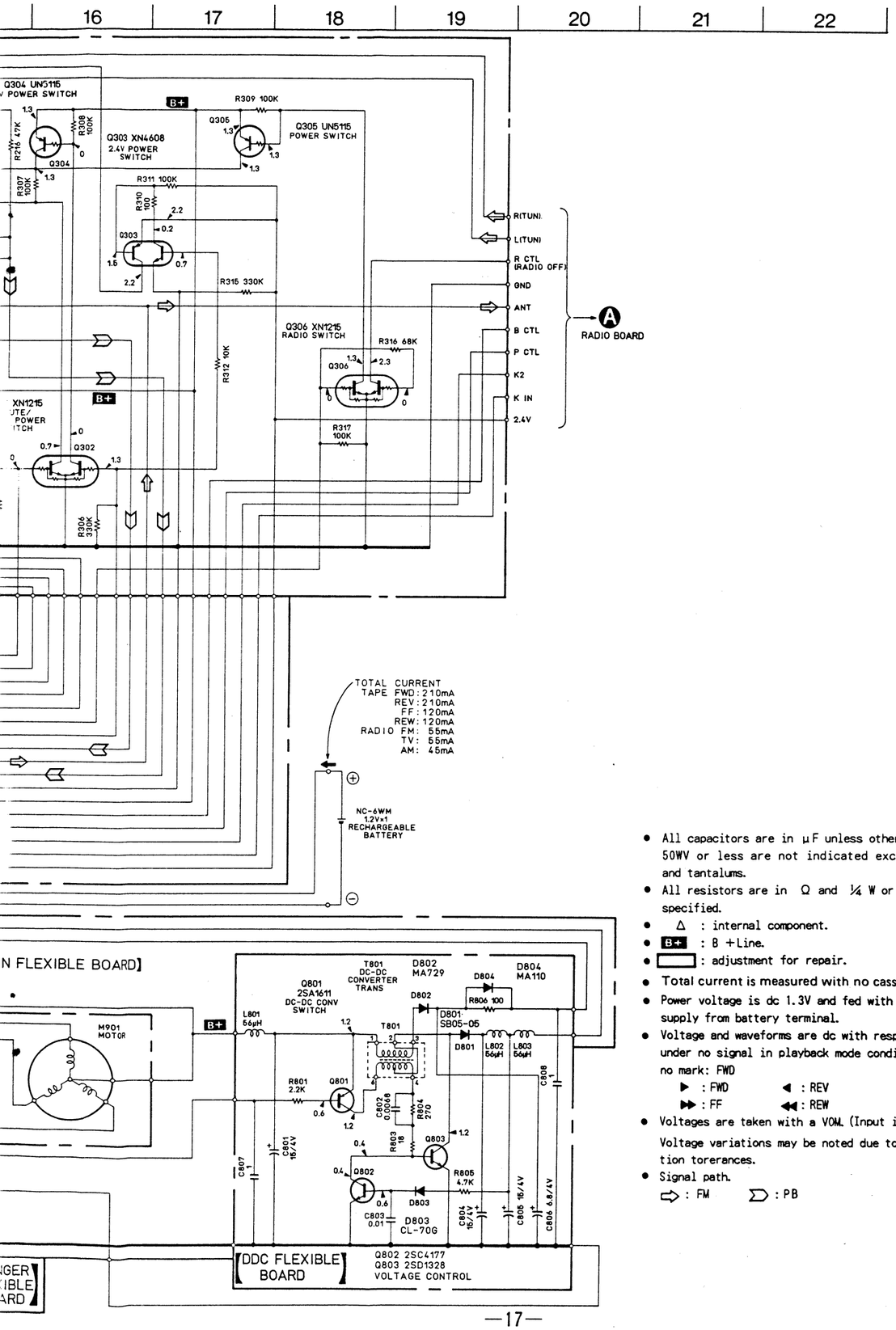
【SW FLEXIBLE BOARD】

NC-6WN 1.2Vx1 RECHARGEBLE BATTERY

4-3. SCHEMATIC DIAGRAM

—Cassette Section—

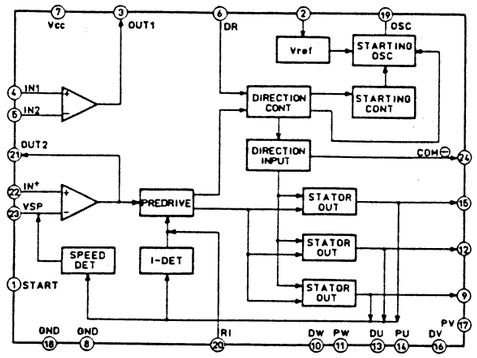




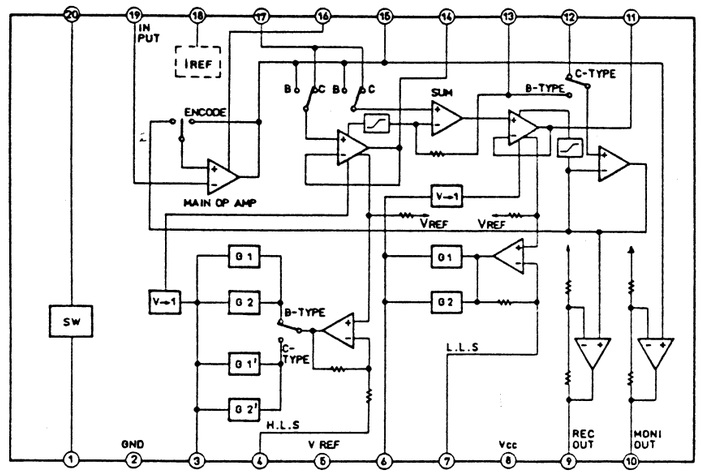
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- Δ : internal component.
- B+ : B +Line.
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 1.3V and fed with requrated dc power. supply from battery terminal.
- Voltage and waveforms are dc with respect to ground under no signal in playback mode conditions.
  no mark: FWD
  ▶ : FWD ◀ : REV
  ▶▶ : FF ◀◀ : REW
- Voltages are taken with a VOM. (Input inpedance 10MΩ)
  Voltage variations may be noted due to normal production torerances.
- Signal path.
  ⇨ : FM ⇦ : PB

4-4. IC BLOCK DIAGRAM

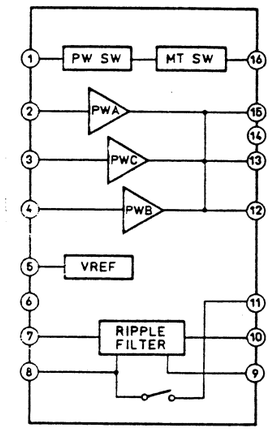
LB1672M (IC601)



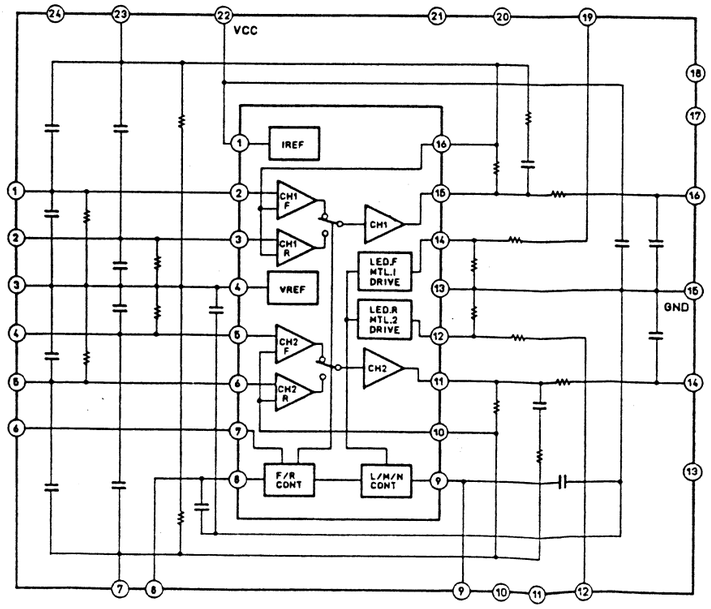
NJM2065M (IC101, 201)



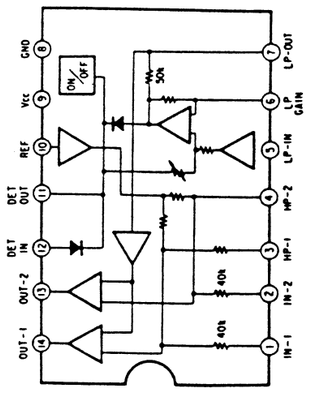
TA8145FN (IC303)



MHC8570EQ01 (IC301)



CXA1249M (IC302)



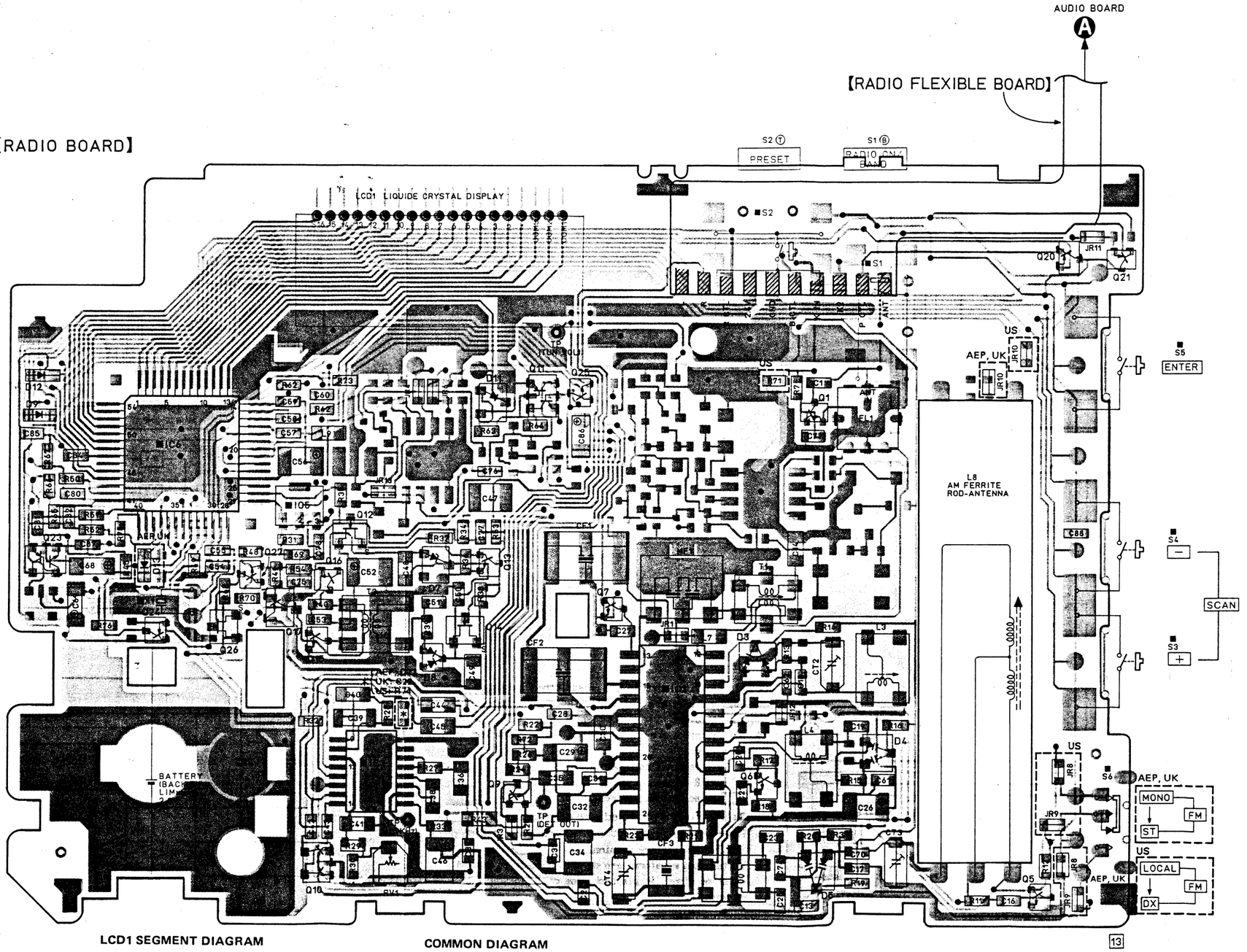
4-5. PRINTED WIRING BOARDS
—Radio Section—

- **Semiconductor Location**

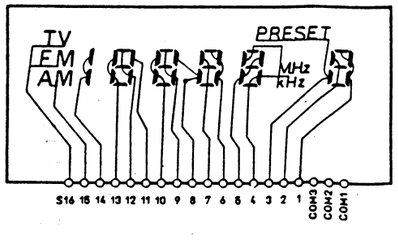
Ref. No.	Location
D3	F-8
D4	G-10
D5	I-9
D7	F-6
D8	G-6
D9	D-2
D11	D-6
D12	D-2
D13	F-3
IC2	G-8
IC3	G-5
IC5	E-4
IC6	E-3
Q1	D-9
Q5	I-11
Q6	H-8
Q7	F-7
Q9	H-6
Q10	I-5
Q11	D-7
Q12	E-5
Q13	F-6
Q14	F-6
Q15	G-5
Q16	F-5
Q17	F-4
Q20	C-11
Q21	C-12
Q23	F-2
Q24	F-3
Q25	D-7
Q26	F-4
Q27	F-4

- ■ : Parts mounted on the conductor side.
- ● : Through hole.
- ▒ : Pattern on the side which is seen.
- ▒ : Pattern of the rear side.
- □ : Chip components extracted from the rear side.

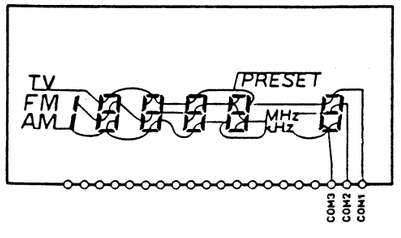
【RADIO BOARD】



LCD1 SEGMENT DIAGRAM



COMMON DIAGRAM



4-6. SCHEMATIC DIAGRAM —Radio Section—

【RADIO BOARD】

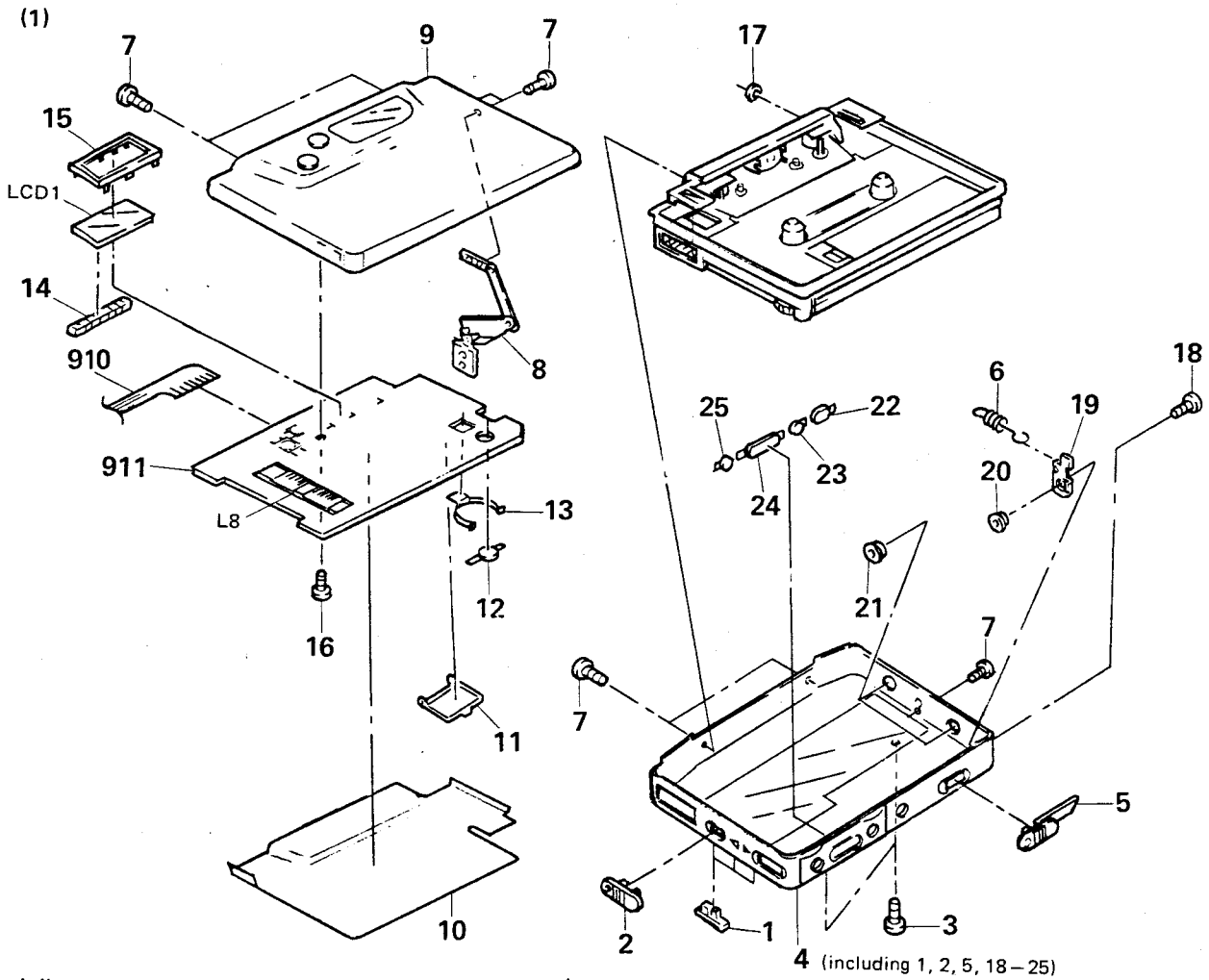
Q5 2SC4178-F13 AM RF AGC
Q6 2SC4178-F13 FM VCO BUFFER
D3, 4 SVC203
D5 KV1560
IC3 BA1362FS FM MPX. DET
IC2 CX20111 FRONT-END FM IF, DISCRI AM IF, DET
IC6 μPD1715G566-24 PLL SYNTHESIZER, LCD DRIVE
IC5 S8051HN-CD VOLTAGE REG
Q1 2SC4178-F13 FM/TV RF AGC
Q7 GA1L4Z FM/AM BAND SWITCH
Q9 2SD1819A S BUFFER
Q10 XN1215 SWITCH
Q11 Q25 GA1L4Z XN4608 RADIO POWER SWITCH
Q17 2SB1295-UL6 RIPPLE FILTER
Q12, 14 2SK209G Q13 2SD1819A-S LOWPASS FILTER
Q15, 16 2SD1819A-S DC-DC CONVERTER
Q21 UN5115 BAND CONTROL SWITCH
Q20 UN5115 PRESET CONTROL SWITCH
Q27 UN5210 SWITCH
Q26 2SK209G SWITCH
Q24 UN5114 RADIO CONTROL SWITCH
Q23 FMC3 SCAN SWITCH
D7 RD11M-B2
D8 MA141WK
D11 SB05-05
D9,12,13 MA110
LCD1 LIQUID CRYSTAL DISPLAY
T1 AM IFT
T2 AM OSC
T3 DC-DC CONVERTER TRANSFORMER
L4 FM OSC
L7 4.7μH
L8 BAR ANT
L9 10μH
X1 75KHz
CF1 10.76
CF2 10.76
CF3
MF1 450K
RV1 VCO
S1 RADIO ON/BAND
S2 PRESET TUNE
S3 SCAN+
S4 SCAN-
S5 ENTER
S6
TP (19KHz)
TP (DET OUT)
TP(TUN VOL)
AM: 1.2 - 7.7
FM: 1.2 - 4.0
FM-FE
AM-FE
FM IF DISCRI
AM IF DET AGC
REG
TUNING METER
BAND SIGNAL OUTPUT CIRCUIT
RIPPLE FILTER
DET 1
DET 2
DET 3
VCO
19KHz 0°
19KHz 90°
38KHz
AEP, UK
US
UK
MONO
LOCAL
ST
DX
FM
SEGMENT
COMON
RADIO FLEXIBLE BOARD
ANT
+ 2.4V
GND
R
L
K2
K IN
B CTL
R CTL (RADIO OFF)
P CTL
AUDIO BOARD
LINE 2.8V(BACK UP)

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- Δ : internal component.
- B+ : B +Line.
- ▭ : adjustment for repair.
- Power voltage is dc 1.3V and fed with regurated dc power. supply from battery terminal.
- Voltage and waveforms are dc with respect to ground under no signal conditions. no mark: FM
- Voltages are taken with a VOM. (Input inpedance 10MΩ) Voltage variations may be noted due to normal production torerances.
- Signal path. ⇨ : FM

SECTION 5
EXPLODED VIEWS

NOTE:

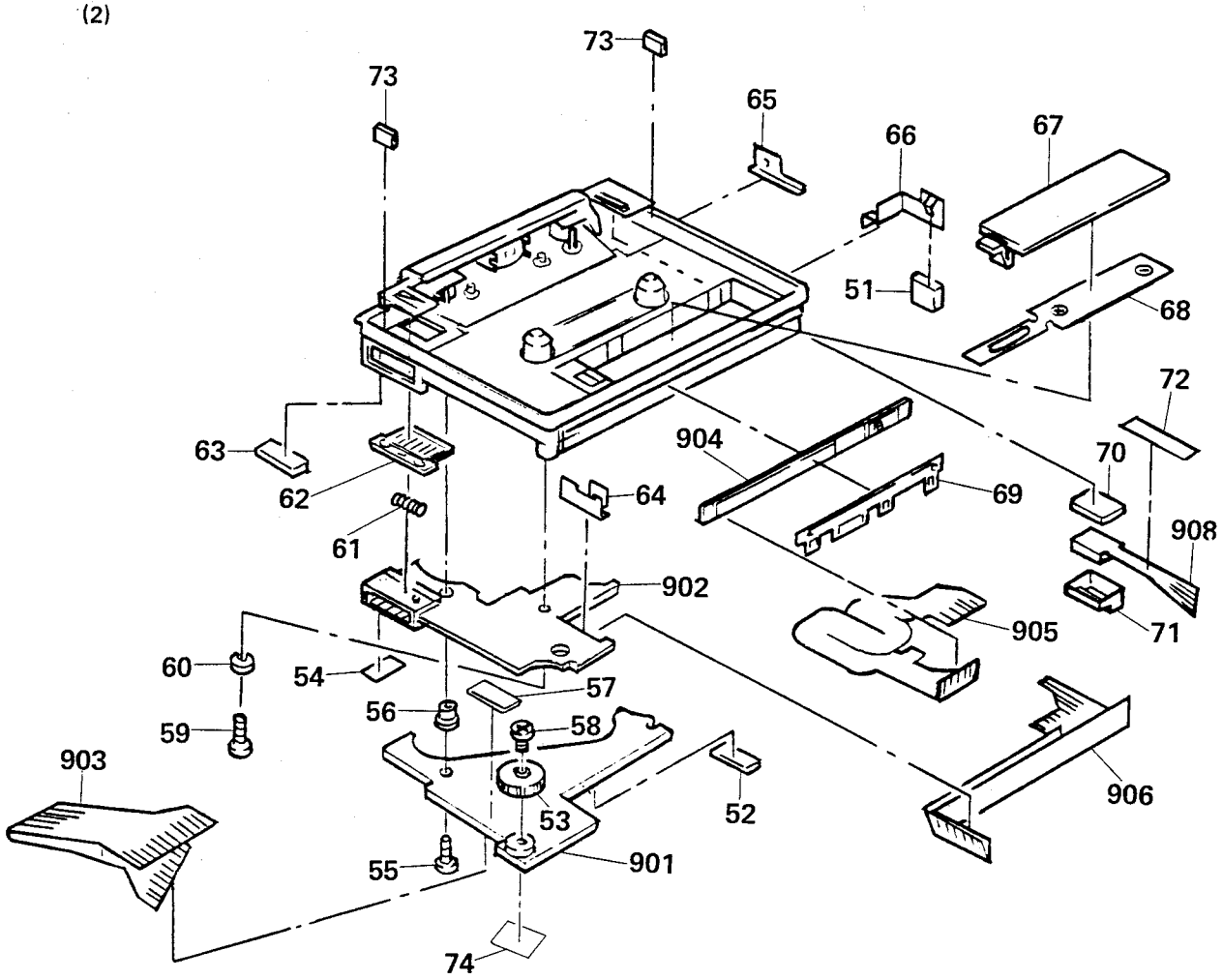
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) ... KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts Color



No.	Part No.	Description	Remarks
1	3-350-917-01	KNOB (DOLBY)	
2	3-350-914-01	KNOB (DBB)	
*3	3-318-382-41	SCREW (1.7X3.7), TAPPING	
4	X-3349-827-1	CASE ASSY (F-B)(BLACK)	
	X-3349-829-1	(AEP, UK)··CASE ASSY (F-B)(SILVER)	
5	3-350-913-01	KNOB (OPEN)	
6	3-350-924-01	SPRING, TENSION	
7	3-704-197-01	SCREW (M1.4X1.6), LOCKING	
8	X-3349-817-1	ARM ASSY, CLICK	
9	X-3349-832-1	(US)·····LID ASSY(F-UB), CASSETTE	
	X-3349-836-1	(AEP, UK)···LID ASSY(F-UKB), CASSETTE(BLACK)	
	X-3349-837-1	(AEP, UK)···LID ASSY(F-UKB), CASSETTE(SILVER)	
10	*3-350-958-01	COVER	
11	3-350-963-01	LID (RADIO), BATTERY CASE	
12	3-350-955-01	TERMINAL BOARD (D), BATTERY	
13	3-350-954-01	TERMINAL BOARD (C), BATTERY	
14	1-535-749-11	CONDUCTOR (CONNECTION)	

No.	Part No.	Description	Remarks
15	*3-350-956-01	CASE, SHIELD	
16	3-342-512-31	SCREW (B1.7X3.5), TAPPING	
17	*3-350-981-21	SHEET (HOLDER)	
18	3-729-013-11	SCREW(M1.4X2), WASHER HEAD(+P)	
19	3-350-944-11	LEVER, LOCK	
20	3-350-903-01	SHAFT (LOCK LEVER)	
21	3-349-899-01	PLATE, ORNAMENTAL	
22	3-349-896-01	BUTTON (STOP)	
23	3-349-895-01	BUTTON (REW)	
24	3-349-897-02	BUTTON (PLAY)	
25	3-349-898-02	BUTTON (FF)	
910	1-629-486-11	PC BOARD, RADIO FLEXIBLE	
911	A-3216-836-A	(US)·····PC BOARD ASSY, RADIO	
	A-3216-837-A	(AEP, UK)···PC BOARD ASSY, RADIO	
L8	1-402-282-11	ANTENNA, FERRITE-ROD (AM)	
LCD1	1-808-578-11	DISPLAY PANEL, LIQUID CRYSTAL	

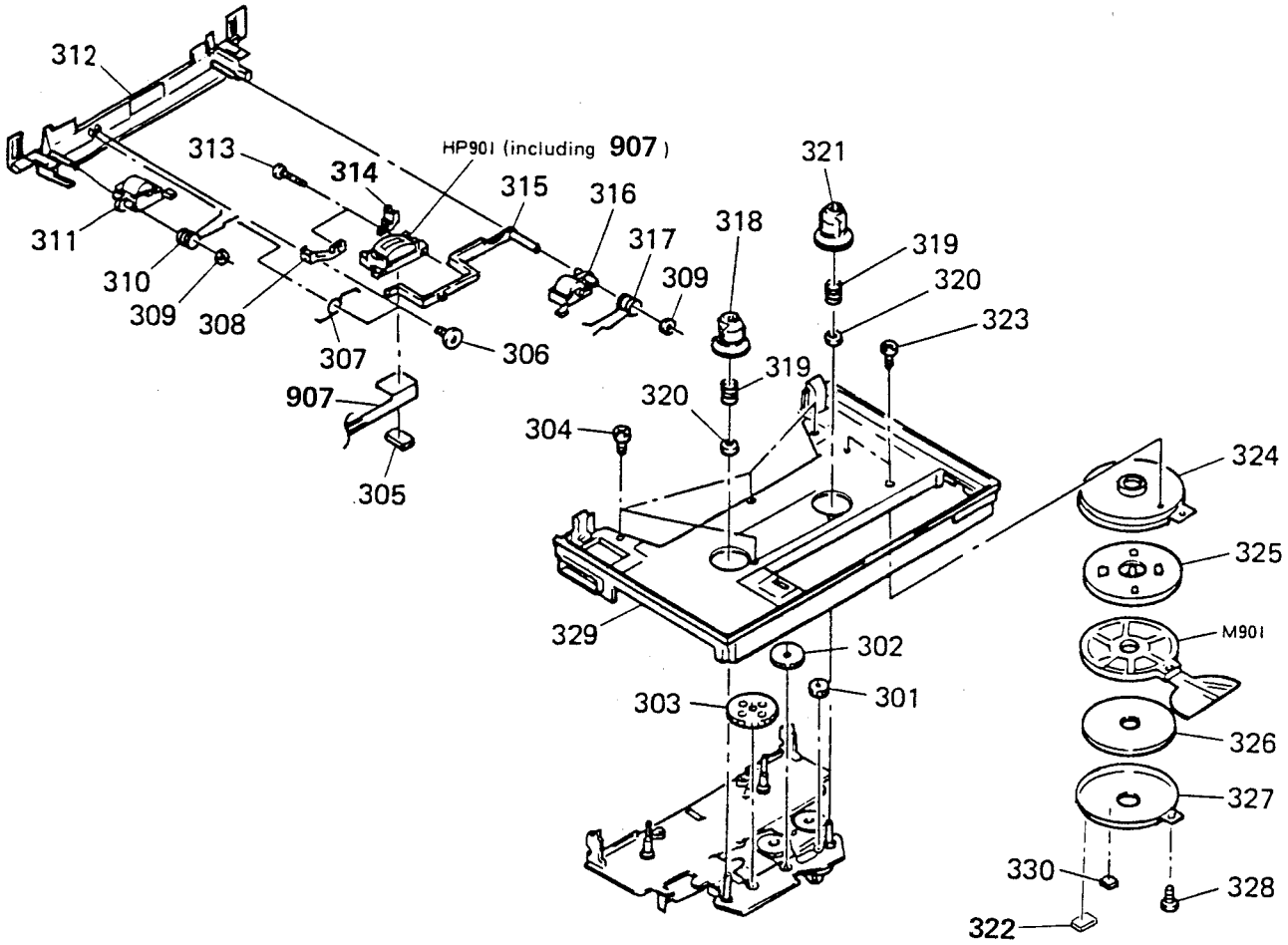
(2)



No.	Part No.	Description	Remarks
51	9-911-838-XX	DAMPER, CASSETTE LID	
52	3-831-441-XX	CUSHION, STOPPER	
53	3-350-906-01	KNOB (VOL)	
54	3-831-441-11	CUSHION (B)	
55	3-335-797-01	SCREW (M1.4X2), TOOTHED LOCK	
56	*3-350-951-01	SPACER (C)	
57	3-703-929-01	SPACER, SWITCH	
58	3-703-502-31	SCREW	
59	3-704-197-11	SCREW (M1.4X2.0), LOCKING	
60	3-350-949-01	SHEET (SYSTEM CONTROL SCREW)	
61	3-350-901-01	SPRING, COMPRESSION	
62	3-350-904-01	SLIDER	
63	*3-309-595-00	SHEET, INSULATING, PACK	
64	3-350-911-01	TERMINAL BOARD (B), BATTERY	
65	3-350-912-01	CONTACT	
66	3-350-910-01	TERMINAL BOARD (A), BATTERY	

No.	Part No.	Description	Remarks
67	3-350-905-01	LID, BATTERY CASE	
68	3-350-927-01	SHEET (BATTERY DRAWER)	
69	3-350-953-01	SHEET (SWITCH)	
70	*3-350-922-01	CASE (A), SHIELD	
71	*3-350-923-01	CASE (B), SHIELD	
72	3-352-112-01	SHEET (DDC FLEXIBLE)	
73	9-911-837-XX	SPACER	
74	9-911-815-01	CUSHION	
901	A-3289-539-A	MOUNTED PCB (INS), AUDIO	
902	A-3216-646-A	MOUNTED PCB, SYSTEM CONTROL	
903	1-629-133-11	PC BOARD, FLEXIBLE	
904	1-571-799-11	SWITCH (BLOCK TYPE)	
905	1-629-136-11	PC BOARD, SWITCH FLEXIBLE	
906	1-629-131-11	PC BOARD, MAIN FLEXIBLE	
908	A-3289-569-A	MOUNTED PCB (INS), DDC	
J901	1-568-121-11	JACK (PHONES/REMOTE)	

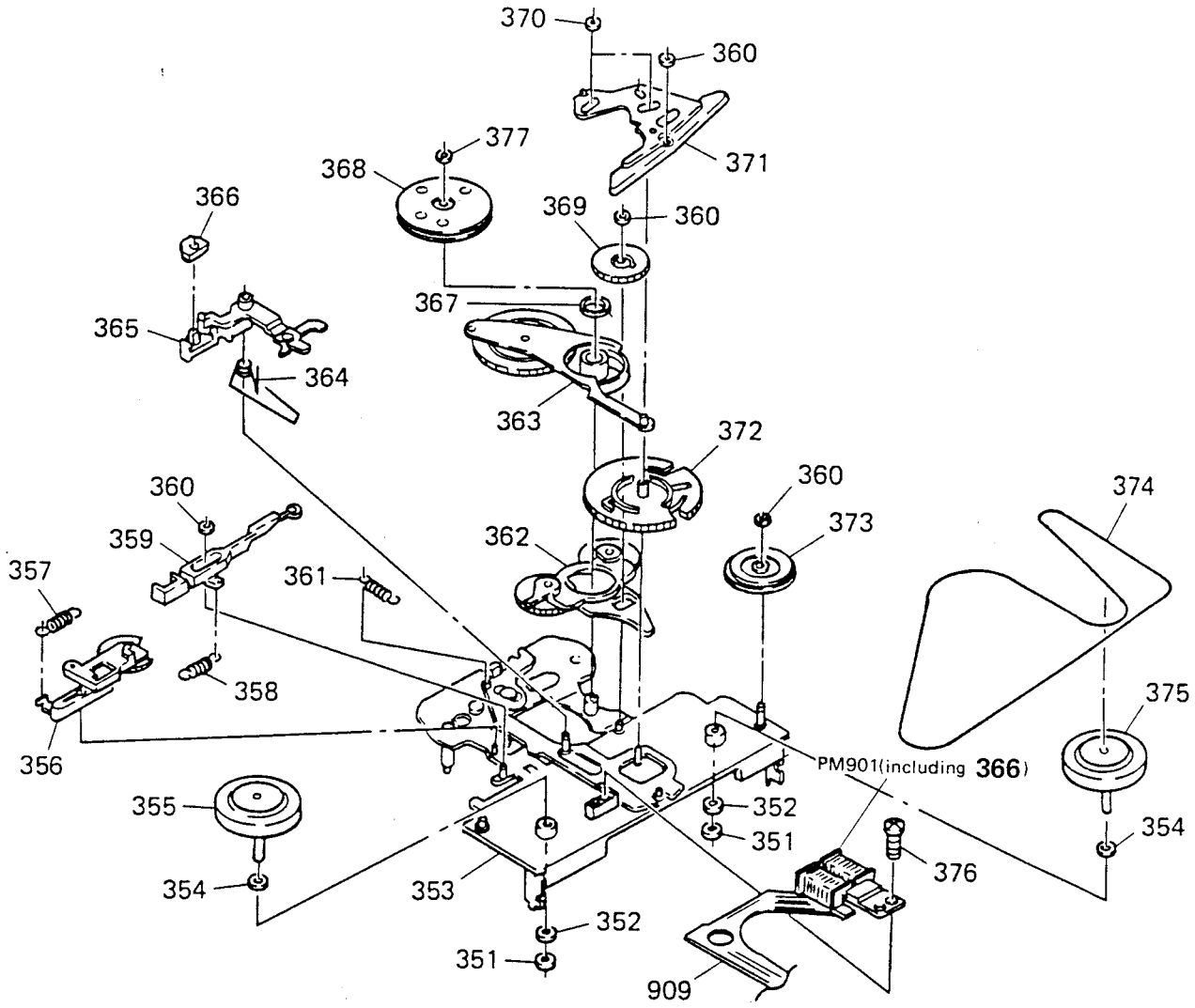
(3) MECHANISM SECTION (MT-WM701C-17)-1



No.	Part No.	Description	Remarks
301	3-349-852-01	GEAR (C)	
302	3-349-830-01	GEAR (B)	
303	X-3349-808-1	GEAR (A) ASSY	
304	3-331-047-03	SCREW (M1.4X1.8),SPECIAL HEAD	
305	*3-338-667-01	SHEET, ADHESIVE, DOUBLE-FACE	
306	3-704-382-31	SCREW (M1.4X2.5), TAPPING	
307	3-349-836-01	SPRING (HEAD LEVER)	
308	3-352-116-01	GUIDE (RIGHT), TAPE	
309	3-349-859-11	WASHER	
310	3-349-864-01	SPRING (PINCH LEVER N), TORSION	
311	X-3349-810-1	PINCH LEVER (N) ASSY	
312	X-3349-803-1	HOLDER ASSY	
313	3-704-252-41	SCREW (M1.4X6)	
314	3-352-117-01	GUIDE (LEFT), TAPE	
315	3-349-801-01	LEVER, HEAD	
316	X-3349-804-1	PINCH LEVER (R) ASSY	
317	3-349-865-01	SPRING (PINCH LEVER R), TORSION	

No.	Part No.	Description	Remarks
318	3-349-878-01	GEAR (T REEL)	
319	3-349-837-01	SPRING, COMPRESSION	
320	3-349-827-11	WASHER	
321	3-349-877-01	GEAR (S REEL)	
322	3-553-567-00	CUSHION	
323	3-349-825-01	SCREW	
324	X-3349-816-1	CHASSIS ASSY, MOTOR	
325	A-3163-156-A	WHEEL ASSY, MOTOR	
326	3-349-803-01	PLATE, HYSTERESIS	
327	3-349-868-01	PLATE, SHIELD	
328	3-704-381-31	SCREW (M1.4X2.5), TAPPING, PAN	
329	3-349-892-01	CHASSIS, SUB	
330	9-911-839-XX	SPACER	
907	1-630-958-11	PC BOARD, HEAD FLEXIBLE	
HP901	1-543-576-11	HEAD, MAGNETIC (PLAY BACK)	
M901	1-462-274-11	COIL, MOTOR (STATOR)	

(4) MECHANISM SECTION (MT-WM701C-17)-2



No.	Part No.	Description	Remarks
351	3-348-993-01	WASHER	
352	3-350-989-01	WASHER	
353	X-3349-801-1	CHASSIS ASSY	
354	3-350-945-01	WASHER	
355	X-3349-809-1	WHEEL (N) ASSY, CAPSTAN	
356	X-3349-812-1	LEVER (S) ASSY	
357	3-349-816-01	SPRING, TENSION	
358	3-349-867-01	SPRING, TENSION	
359	3-349-880-01	LEVER (P), SW	
360	3-349-859-11	WASHER	
361	3-349-866-01	SPRING (POWER TENSION), TENSION	
362	X-3349-807-1	LEVER ASSY, FR	
363	X-3349-815-1	LEVER (T) ASSY	
364	3-349-860-01	SPRING, TORSION	
365	X-3349-814-1	LEVER (P) ASSY, TRIGGER	

No.	Part No.	Description	Remarks
366	*3-704-430-01	ARBOR, MOVABLE	
367	3-349-850-01	WASHER	
368	3-349-854-01	PULLEY	
369	3-349-853-01	GEAR (D)	
370	3-349-859-21	WASHER	
371	3-349-884-01	LEVER, NR	
372	3-349-889-01	GEAR (CAM)	
373	3-338-628-01	WHEEL, REVERSE	
374	3-349-814-01	BELT	
375	X-3349-813-1	WHEEL (R) ASSY, CAPSTAN	
376	3-345-648-03	SCREW (M1.4X4.0), TOOTHED LOCK	
377	3-349-859-01	WASHER	
909	1-629-130-11	PC BOARD, PLUNGER FLEXIBLE	
PM901	1-454-479-11	SOLENOID, PLUNGER	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description		
901	A-3289-539-A	MOUNTED PCB (INS), AUDIO		
902	A-3216-646-A	MOUNTED PCB, SYSTEM CONTROL		
903	1-629-133-11	PC BOARD, FLEXIBLE		
904	1-571-799-11	SWITCH (BLOCK TYPE)		
905	1-629-136-11	PC BOARD, SWITCH FLEXIBLE		
906	1-629-131-11	PC BOARD, MAIN FLEXIBLE		
907	1-630-958-11	PC BOARD, HEAD FLEXIBLE		
908	A-3289-569-A	MOUNTED PCB (INS), DDC		
909	1-629-130-11	PC BOARD, PLUNGER FLEXIBLE		
910	1-629-486-11	PC BOARD, RADIO FLEXIBLE		
911	A-3216-836-A	(US)·····PC BOARD ASSY, RADIO		
	A-3216-837-A	(AEP, UK)··PC BOARD ASSY, RADIO		
C1	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C7	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V
C13	1-162-995-11	CERAMIC CHIP 0.022MF		50V
C14	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C16	1-162-974-11	CERAMIC CHIP 0.01MF		50V
C17	1-162-934-11	CERAMIC CHIP 3PF	0.25PF	50V
C18	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V
C19	1-162-999-11	CERAMIC CHIP 91PF	5%	50V
C20	1-162-932-11	CERAMIC CHIP 2PF	0.25PF	50V
C21	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C22	1-162-995-11	(AEP, UK)··CERAMIC CHIP 0.022MF		50V
C23	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C24	1-162-941-11	CERAMIC CHIP 10PF	0.5PF	50V
C25	1-162-995-11	CERAMIC CHIP 0.022MF		50V
C26	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C27	1-162-974-11	CERAMIC CHIP 0.01MF		50V
C28	1-162-974-11	CERAMIC CHIP 0.01MF		50V
C29	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C30	1-164-234-11	CERAMIC CHIP 1MF		10V
C31	1-162-953-11	CERAMIC CHIP 100PF	5%	50V
C32	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C33	1-162-995-11	CERAMIC CHIP 0.022MF		50V
C34	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C35	1-164-234-11	CERAMIC CHIP 1MF		10V
C36	1-164-234-11	CERAMIC CHIP 1MF		10V
C37	1-162-962-11	CERAMIC CHIP 470PF	10%	50V
C38	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C39	1-162-993-11	CERAMIC CHIP 0.22MF	10%	16V
C40	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C41	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V
C42	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C43	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C44	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C45	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C46	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C47	1-164-006-11	CERAMIC CHIP 0.33MF	10%	16V
C48	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C49	1-164-234-11	CERAMIC CHIP 1MF		10V
C50	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C51	1-162-941-11	CERAMIC CHIP 10PF	0.5PF	50V
C52	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C53	1-162-941-11	CERAMIC CHIP 10PF	0.5PF	50V
C54	1-164-237-11	CERAMIC CHIP 16PF	10%	50V
C55	1-164-238-11	CERAMIC CHIP 36PF	10%	50V
C56	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C57	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C58	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C59	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C60	1-162-995-11	CERAMIC CHIP 0.022MF		50V
C61	1-162-974-11	CERAMIC CHIP 0.01MF		50V
C62	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V
C68	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C69	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C70	1-162-995-11	CERAMIC CHIP 0.022MF		50V
C74	1-162-920-11	CERAMIC CHIP 27PF	10%	50V
C75	1-162-974-11	CERAMIC CHIP 0.01MF		50V
C76	1-162-974-11	CERAMIC CHIP 0.01MF		50V
C77	1-162-962-11	CERAMIC CHIP 470PF	10%	50V
C78	1-162-953-11	CERAMIC CHIP 100PF	5%	50V
C80	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C81	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C82	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C84	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C85	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C86	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C87	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C88	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C101	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C102	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C103	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V
C104	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C105	1-135-199-21	TANTAL. CHIP 1MF	10%	16V
C106	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C107	1-135-149-21	TANTAL. CHIP 2.2MF	10%	4V
C108	1-135-131-11	TANTAL. CHIP 22MF	20%	4V
C109	1-135-191-21	TANTAL. CHIP 0.22MF	10%	20V
C110	1-135-191-21	TANTAL. CHIP 0.22MF	10%	20V
C111	1-135-149-21	TANTAL. CHIP 2.2MF	10%	4V

Ref.No.	Part No.	Description		
C112	1-164-172-11	CERAMIC CHIP 0.0056MF	5%	25V
C113	1-162-970-11	CERAMIC CHIP 0.01MF	5%	25V
C114	1-163-018-00	CERAMIC CHIP 0.0056MF	5%	50V
C115	1-162-955-11	CERAMIC CHIP 150PF	5%	50V
C116	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C117	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C118	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C119	1-135-091-00	TANTAL. CHIP 1MF	20%	16V
C120	1-135-199-21	TANTAL. CHIP 1MF	10%	16V
C201	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C202	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C203	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V
C204	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C205	1-135-199-21	TANTAL. CHIP 1MF	10%	16V
C206	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C207	1-135-149-21	TANTAL. CHIP 2.2MF	10%	4V
C208	1-135-131-11	TANTAL. CHIP 22MF	20%	4V
C209	1-135-191-21	TANTAL. CHIP 0.22MF	10%	20V
C210	1-135-191-21	TANTAL. CHIP 0.22MF	10%	20V
C211	1-135-149-21	TANTAL. CHIP 2.2MF	10%	4V
C212	1-164-172-11	CERAMIC CHIP 0.0056MF	5%	25V
C213	1-162-970-11	CERAMIC CHIP 0.01MF	5%	25V
C214	1-163-018-00	CERAMIC CHIP 0.0056MF	5%	50V
C215	1-162-955-11	CERAMIC CHIP 150PF	5%	50V
C216	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C217	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C218	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C219	1-135-091-00	TANTAL. CHIP 1MF	20%	16V
C220	1-135-199-21	TANTAL. CHIP 1MF	10%	16V
C301	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V
C302	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V
C303	1-135-131-11	TANTAL. CHIP 22MF	20%	4V
C304	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C305	1-135-150-21	TANTAL. CHIP 3.3MF	10%	4V
C306	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C307	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C308	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V
C309	1-135-091-00	TANTAL. CHIP 1MF	20%	16V
C310	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C311	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C312	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C313	1-162-955-11	CERAMIC CHIP 150PF	5%	50V
C314	1-135-149-21	TANTAL. CHIP 2.2MF	10%	4V
C315	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C316	1-135-184-11	TANTAL. CHIP 6.8MF	20%	4V
C317	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C318	1-135-150-21	TANTAL. CHIP 3.3MF	10%	4V
C601	1-162-974-11	CERAMIC CHIP 0.01MF		50V
C602	1-135-150-21	TANTAL. CHIP 3.3MF	10%	4V
C603	1-162-974-11	CERAMIC CHIP 0.01MF		50V
C604	1-135-150-21	TANTAL. CHIP 3.3MF	10%	4V
C605	1-162-974-11	CERAMIC CHIP 0.01MF		50V
C606	1-135-150-21	TANTAL. CHIP 3.3MF	10%	4V
C607	1-135-149-21	TANTAL. CHIP 2.2MF	20%	4V
C608	1-162-993-11	CERAMIC CHIP 0.22MF	10%	16V
C609	1-135-149-21	TANTAL. CHIP 2.2MF	20%	4V
C701	1-164-234-11	CERAMIC CHIP 1MF		10V

Ref.No.	Part No.	Description		
C702	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C703	1-164-234-11	CERAMIC CHIP 1MF		10V
C704	1-162-957-11	CERAMIC CHIP 220PF	5%	50V
C705	1-162-957-11	CERAMIC CHIP 220PF	5%	50V
C706	1-164-005-11	CERAMIC CHIP 0.47MF		25V
C801	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C802	1-162-969-11	CERAMIC CHIP 0.0068MF	10%	25V
C803	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C804	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C805	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C806	1-135-170-21	TANTAL. CHIP 6.8MF	20%	4V
C807	1-162-638-11	CERAMIC CHIP 1MF		16V
C808	1-162-638-11	CERAMIC CHIP 1MF		16V
CF1	1-577-129-11	FILTER, CRYSTAL		
CF2	1-577-129-11	FILTER, CRYSTAL		
CF3	1-567-920-21	FILTER, CERAMIC		
CT2	1-141-313-11	CAP, VAR, TRIMMER (CHIP TYPE)		
CT3	1-141-313-11	CAP, VAR, TRIMMER (CHIP TYPE)		
CT4	1-141-313-11	CAP, VAR, TRIMMER (CHIP TYPE)		
D3	8-719-939-02	DIODE SVC203CP		
D4	8-719-939-02	DIODE SVC203CP		
D5	8-719-951-05	DIODE KV1560		
D7	8-719-106-62	DIODE RD11M-B2		
D8	8-719-404-32	DIODE MA141WK		
D9	8-719-404-46	DIODE MA110		
D11	8-719-938-75	DIODE SB05-05CP		
D12	8-719-404-46	DIODE MA110		
D13	8-719-404-46	DIODE MA110		
D701	8-719-404-46	DIODE MA110		
D702	8-719-974-55	DIODE GL102R6		
D703	8-719-420-51	DIODE MA729		
D801	8-719-938-75	DIODE SB05-05C		
D802	8-719-420-51	DIODE MA729		
D803	8-719-975-07	DIODE CL-70G-CD-T (LED)		
D804	8-719-404-46	DIODE MA110		
FL1	1-236-504-11	FILTER, BAND PASS		
FL101	1-236-323-11	FILTER, SP-SK		
FL201	1-236-323-11	FILTER, SP-SK		
HP901	1-543-576-11	HEAD, MAGNETIC (PLAY BACK)		
IC2	8-752-011-11	IC CX20111		
IC3	8-759-945-89	IC BA1362FS		
IC5	8-759-947-95	IC S-8051HN-CD		
IC6	8-759-142-67	IC UPD1715G-566-24		
IC101	8-759-710-49	IC NJM2065AM		
IC201	8-759-710-49	IC NJM2065AM		
IC301	8-749-920-28	IC MHC8570EQ01L		
IC302	8-759-805-09	IC CXA1249M		
IC303	8-759-231-14	IC TA8145FN-ER		
IC601	8-759-821-20	IC LB1672M		
IC701	8-759-146-00	IC UPD7508HG-653-22		
J901	1-568-121-11	JACK (PHONES/REMOTE)		
JR1	1-216-864-11	METAL GLAZE 0	5%	1/16W
JR3	1-216-864-11	METAL GLAZE 0	5%	1/16W
JR4	1-216-864-11	METAL GLAZE 0	5%	1/16W
JR6	1-216-864-11	METAL GLAZE 0	5%	1/16W
JR8	1-216-864-11	METAL GLAZE 0	5%	1/16W
JR9	1-216-864-11	METAL GLAZE 0	5%	1/16W

Ref.No.	Part No.	Description
JR10	1-216-864-11	METAL GLAZE 0 5% 1/16W
JR11	1-216-864-11	METAL GLAZE 0 5% 1/16W
JR12	1-216-864-11	METAL GLAZE 0 5% 1/16W
JR13	1-216-864-11	METAL GLAZE 0 5% 1/16W
JR601	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR602	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR603	1-216-296-00	METAL GLAZE 0 5% 1/8W
L3	1-459-590-11	COIL (WITH CORE)(FM RF)
L4	1-459-590-11	COIL (WITH CORE)(FM OSC)
L7	1-412-002-31	INDUCTOR CHIP 4.7UH
L8	1-402-282-11	ANTENNA, FERRITE-ROD (AM)
L9	1-412-006-31	INDUCTOR CHIP 10UH
L701	1-410-997-31	INDUCTOR CHIP 2.2UH
L702	1-410-997-31	INDUCTOR CHIP 2.2UH
L703	1-410-997-31	INDUCTOR CHIP 2.2UH
L801	1-412-148-11	INDUCTOR CHIP 56UH
L802	1-410-213-51	INDUCTOR CHIP 56UH
L803	1-410-213-51	INDUCTOR CHIP 56UH
LCD1	1-808-578-11	DISPLAY PANEL, LIQUID CRYSTAL
M901	1-462-274-11	COIL, MOTOR (STATOR)
MF1	1-577-261-21	FILTER, CERAMIC 450kHz
PH701	8-719-710-35	DIODE, PHOTO NJL5161K-B
PM901	1-454-479-11	SOLENOID, PLUNGER
Q1	8-729-117-72	TRANSISTOR 2SC4178
Q5	8-729-117-72	TRANSISTOR 2SC4178
Q6	8-729-117-72	TRANSISTOR 2SC4178
Q7	8-729-420-50	TRANSISTOR UN5215
Q9	8-729-602-21	TRANSISTOR 2SC4154
Q10	8-729-403-17	TRANSISTOR XN1215
Q11	8-729-402-16	TRANSISTOR XN4608
Q12	8-729-220-93	TRANSISTOR 2SK209G
Q13	8-729-602-21	TRANSISTOR 2SC4154
Q14	8-729-220-93	TRANSISTOR 2SK209G
Q15	8-729-602-21	TRANSISTOR 2SC4154
Q16	8-729-602-21	TRANSISTOR 2SC4154
Q17	8-729-807-87	TRANSISTOR 2SB1295-UL6
Q20	8-729-420-53	TRANSISTOR UN5115
Q21	8-729-420-53	TRANSISTOR UN5115
Q23	8-729-920-41	TRANSISTOR FMC3
Q24	8-729-402-96	TRANSISTOR UN5114
Q25	8-729-420-50	TRANSISTOR UN5215
Q26	8-729-220-93	TRANSISTOR 2SK209G
Q27	8-729-421-80	TRANSISTOR UN5210S
Q301	8-729-230-74	TRANSISTOR 2SA1362-YG-EL
Q302	8-729-403-17	TRANSISTOR XN1215
Q303	8-729-402-16	TRANSISTOR XN4608
Q304	8-729-420-53	TRANSISTOR UN5115
Q305	8-729-420-53	TRANSISTOR UN5115
Q306	8-729-403-17	TRANSISTOR XN1215
Q601	8-729-162-43	TRANSISTOR 2SB624-V3
Q602	8-729-162-43	TRANSISTOR 2SB624-V3
Q701	8-729-403-27	TRANSISTOR XN4401
Q702	8-729-403-45	TRANSISTOR XN1115
Q703	8-729-403-45	TRANSISTOR XN1115
Q704	8-729-402-16	TRANSISTOR XN4608
Q705	8-729-403-17	TRANSISTOR XN1215
Q706	8-729-402-16	TRANSISTOR XN4608
Q707	8-729-402-16	TRANSISTOR XN4608
Q708	8-729-420-50	TRANSISTOR UN5215
Q709	8-729-420-53	TRANSISTOR UN5115
Q710	8-729-403-17	TRANSISTOR XN1215
Q711	8-729-420-50	TRANSISTOR UN5215
Q801	8-729-117-16	TRANSISTOR 2SA1611-M6
Q802	8-729-117-32	TRANSISTOR 2SC4177
Q803	8-729-400-56	TRANSISTOR 2SD1328-T
R3	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R7	1-216-829-11	METAL GLAZE 4.7K 5% 1/16W
R11	1-216-823-11	METAL GLAZE 1.5K 5% 1/16W
R12	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R13	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R14	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R15	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R16	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R17	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R18	1-216-818-11	METAL GLAZE 560 5% 1/16W
R19	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R20	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R21	1-216-809-11	METAL GLAZE 100 5% 1/16W
R22	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R23	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R24	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R25	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R26	1-216-839-11	METAL GLAZE 33K 5% 1/16W
R27	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R28	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R29	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R30	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R31	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R32	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R33	1-216-807-11	METAL GLAZE 68 5% 1/16W
R34	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R35	1-216-829-11	METAL GLAZE 4.7K 5% 1/16W
R36	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W
R37	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R38	1-216-828-11	METAL GLAZE 3.9K 5% 1/16W
R39	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R40	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R41	1-218-272-11	METAL GLAZE 5.1K 5% 1/16W
R42	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R43	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R45	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R48	1-216-857-11	METAL GLAZE 1M 5% 1/16W
R49	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R50	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W
R51	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W
R52	1-216-830-11	METAL GLAZE 5.6K 5% 1/16W
R53	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R54	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R62	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R63	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R64	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R65	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R66	1-216-845-11	METAL GLAZE 100K 5% 1/16W

Ref.No.	Part No.	Description			
R67	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R68	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R69	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R70	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R71	1-216-853-11	(US)...METAL GLAZE	470K	5%	1/16W
R72	1-216-853-11	METAL GLAZE	470K	5%	1/16W
R73	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R74	1-216-833-11	(US)...METAL GLAZE	10K	5%	1/16W
R75	1-216-830-11	METAL GLAZE	5.6K	5%	1/16W
R76	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R101	1-216-815-11	METAL GLAZE	330	5%	1/16W
R102	1-216-815-11	METAL GLAZE	330	5%	1/16W
R103	1-216-832-11	METAL GLAZE	8.2K	5%	1/16W
R104	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R105	1-218-271-11	METAL GLAZE	2K	5%	1/16W
R106	1-218-273-11	METAL GLAZE	510K	5%	1/16W
R107	1-216-993-11	METAL GLAZE	2.4K	5%	1/16W
R108	1-218-272-11	METAL GLAZE	5.1K	5%	1/16W
R109	1-218-271-11	METAL GLAZE	2K	5%	1/16W
R110	1-218-270-11	METAL GLAZE	1.1K	5%	1/16W
R111	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R112	1-216-839-11	METAL GLAZE	33K	5%	1/16W
R113	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R114	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R115	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R116	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R117	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R118	1-216-803-11	METAL GLAZE	33	5%	1/16W
R201	1-216-815-11	METAL GLAZE	330	5%	1/16W
R202	1-216-815-11	METAL GLAZE	330	5%	1/16W
R203	1-216-832-11	METAL GLAZE	8.2K	5%	1/16W
R204	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R205	1-218-271-11	METAL GLAZE	2K	5%	1/16W
R206	1-218-273-11	METAL GLAZE	510K	5%	1/16W
R207	1-216-993-11	METAL GLAZE	2.4K	5%	1/16W
R208	1-218-272-11	METAL GLAZE	5.1K	5%	1/16W
R209	1-218-271-11	METAL GLAZE	2K	5%	1/16W
R210	1-218-270-11	METAL GLAZE	1.1K	5%	1/16W
R211	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R212	1-216-839-11	METAL GLAZE	33K	5%	1/16W
R213	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R214	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R215	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R216	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R217	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R218	1-216-803-11	METAL GLAZE	33	5%	1/16W
R301	1-216-809-11	METAL GLAZE	100	5%	1/16W
R302	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R303	1-216-832-11	METAL GLAZE	8.2K	5%	1/16W
R304	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R305	1-216-823-11	METAL GLAZE	1.5K	5%	1/16W
R306	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R307	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R308	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R309	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R310	1-216-809-11	METAL GLAZE	100	5%	1/16W
R311	1-216-845-11	METAL GLAZE	100K	5%	1/16W

Ref.No.	Part No.	Description			
R312	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R313	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R314	1-216-803-11	METAL GLAZE	33	5%	1/16W
R315	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R316	1-216-843-11	METAL GLAZE	68K	5%	1/16W
R317	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R602	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R603	1-216-830-11	METAL GLAZE	5.6K	5%	1/16W
R606	1-216-809-11	METAL GLAZE	100	5%	1/16W
R607	1-216-809-11	METAL GLAZE	100	5%	1/16W
R608	1-216-815-11	METAL GLAZE	330	5%	1/16W
R609	1-216-849-11	METAL GLAZE	220K	5%	1/16W
R610	1-216-835-11	METAL GLAZE	15K	5%	1/16W
R611	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R701	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R702	1-216-839-11	METAL GLAZE	33K	5%	1/16W
R703	1-236-500-11	RES, NETWORK	10KX3		
R704	1-236-499-11	RES, NETWORK	1KX3		
R705	1-236-499-11	RES, NETWORK	1KX3		
R706	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R707	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R708	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R709	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R710	1-236-503-11	RES, NETWORK	2.2KX3		
R713	1-216-861-11	METAL GLAZE	2.2M	5%	1/16W
R714	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R715	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R716	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R717	1-216-849-11	METAL GLAZE	220K	5%	1/16W
R718	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R719	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R720	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R721	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R722	1-236-502-11	RES, NETWORK	10KX3		
R723	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R724	1-216-816-11	METAL GLAZE	390	5%	1/16W
R725	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R726	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R727	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R728	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R729	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R730	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R731	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R732	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R733	1-216-816-11	METAL GLAZE	390	5%	1/16W
R734	1-216-816-11	METAL GLAZE	390	5%	1/16W
R735	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R736	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R737	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R738	1-216-994-11	METAL GLAZE	13K	5%	1/16W
R739	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R740	1-216-845-11	(US)...METAL GLAZE	100K	5%	1/16W
R741	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R742	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R743	1-216-839-11	METAL GLAZE	33K	5%	1/16W
R744	1-216-839-11	METAL GLAZE	33K	5%	1/16W
R801	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W

Ref.No.	Part No.	Description			
R745	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R803	1-216-800-11	METAL GLAZE	18	5%	1/16W
R804	1-216-814-11	METAL GLAZE	270	5%	1/16W
R805	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R806	1-216-809-11	METAL GLAZE	100	5%	1/16W
RV1	1-237-927-11	RES, ADJ, CERMET 10K (FM VCO)			
RV301	1-238-429-11	RES, VAR, CARBON 10K/10K (VOL)			
RV601	1-238-202-11	RES, ADJ, METAL GLAZE 2.2K (SPEED)			
S1	1-571-533-31	SWITCH, KEY BOARD (RADIO ON/BAND)			
S2	1-571-533-31	SWITCH, KEY BOARD (PRESET TUNE)			
S3	1-570-204-21	SWITCH, KEY BOARD (SCAN +)			
S4	1-570-204-21	SWITCH, KEY BOARD (SCAN -)			
S5	1-570-204-21	SWITCH, KEY BOARD (ENTER)			
S6	1-571-275-11	SWITCH, SLIDE (FM)			
S301	1-571-275-11	SWITCH, SLIDE (TAPE)			
S302	1-571-506-11	SWITCH, SLIDE (DOLBY NR)			
S303	1-571-584-11	SWITCH, SLIDE (FWD/REV)			
S304	1-571-506-11	SWITCH, SLIDE (DBB)			
S701	1-571-275-11	SWITCH, SLIDE (MODE)			
S702	1-570-395-11	SWITCH, LEAF (PLAY)			
T1	1-404-690-11	TRANSFORMER, IF (AM IFT)			
T2	1-406-177-11	COIL (AM OSC)			
T3	1-449-021-21	TRANSFORMER, DC-DC CONVERTER			
T801	1-449-543-11	TRANSFORMER, DC-DC CONVERTER			
X1	1-577-262-11	VIBRATOR, CRYSTAL (75MHz)			
X701	1-577-306-11	OSCILLATOR, CERAMIC (1MHz)			

ACCESSORY & PACKING MATERIAL

	1-505-103-11	HEADPHONE SET (WITH REMOCON)
	1-528-231-11	BATTERY, NICKEL CADMIUM (NC-6WM)
⚠	1-528-249-11	(US)...BATTERY CHARGER (BC-7S)
⚠	1-528-252-11	(UK)...BATTERY CHARGER (BC-7S)
⚠	1-528-251-11	(AEP)··BATTERY CHARGER (BC-7S)
	1-550-460-11	BATTERY CASE
⚠	1-568-133-11	ADAPTOR, PLUG
	3-350-942-01	PORCH, CARRYING
	3-350-980-01	CLIP
	*3-352-123-01	CUSHION (LEFT)
	*3-352-124-01	CUSHION (RIGHT)
	*3-352-136-01	INDIVIDUAL CARTON
	3-786-808-21	(US, UK)···MANUAL, INSTRUCTION
	3-786-808-11	(AEP)·····MANUAL, INSTRUCTION

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.